Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

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Table of Contents

Part 1

Foreword

1.0 Data Gap Investigation Report 1-1
1.1 INTRODUCTION 1-1
1.1.1 Identification of COCs 1-1
1.1.2 Data Gap Analysis Approach and Summary 1-1
1.1.2.1 Data Gap Analysis Approach 1-2
1.1.2.2 Data Gap Investigation Summary 1-3
1.1.3 Data Use 1-5

2.0 Summary of Work Performed 2-1
2.1 HYDROLOGIC INVESTIGATION 2-1
2.2 MONITORING WELL INSTALLATION 2-2
2.3 MONITORING WELL DEVELOPMENT 2-2
2.4 DIRECT-PUSH PROBE INSTALLATION 2-3
2.5 GROUNDWATER SAMPLING 2-3
2.6 SOIL SAMPLING 2-4
2.7 SURVEYING 2-4

3.0 Groundwater Analysis Results 3-1
3.1 INORGANICS 3-1
3.1.1 Arsenic 3-2
3.1.2 Copper 3-3
3.1.3 Lead 3-4
3.1.4 Manganese 3-4
3.1.5 Nickel (Soluble Salts) 3-5
3.1.6 Selenium 3-6
3.1.7 Mercury 3-7
3.1.8 Zinc 3-8

3.2 SEMIVOLATILE CONSTITUENTS AND POLYCHLORINATED BIPHENYLS.. 3-9
3.2.1 2,4-Dimethylphenol 3-9
3.2.2 bis(2-Ethylhexyl)phthalate 3-10
3.2.3 Aroclor 1254 3-11
3.3 VOLATILE ORGANIC COMPOUNDS 3-11
3.3.1 Benzene 3-12
3.3.2 1,1-Dichloroethene 3-13
3.3.3 cis-1,2-Dichloroethene 3-14
3.3.4 Tetrachloroethene 3-14
3.3.5 1,1,2-Trichloroethane 3-15
3.3.6 Trichloroethene 3-16
3.3.7 Vinyl Chloride 3-17
3.4 PETROLEUM HYDROCARBONS 3-18
3.4.1 Diesel-Range Petroleum Hydrocarbons 3-18
3.4.2 Gasoline-Range Petroleum Hydrocarbons 3-19
3.4.3 Motor Oil-Range Petroleum Hydrocarbons 3-20

4.0 Groundwater Hydrogeologic Results 4-1

5.0 Soil Analysis Results 5-1
5.1 INORGANICS 5-1
5.1.1 Arsenic 5-2
5.1.2 Cadmium 5-3
5.1.3 Copper 5-4
5.1.4 Hexavalent Chromium 5-5
5.1.5 Mercury 5-5
5.1.6 Nickel 5-7
5.1.7 Selenium 5-7
5.1.8 Silver 5-8
5.1.9 Thallium 5-9
5.1.10 Zinc 5-10

5.2 SEMIVOLATILE ORGANIC COMPOUNDS AND POLYCHLORINATED BIPHENYLS....5-11
5.2.1 Carcinogenic Polycyclic Aromatic Hydrocarbons....5-11
5.2.2 bis(2-Ethylhexyl)phthalate....5-12
5.2.3 Polychlorinated Biphenyls....5-13
5.3 VOLATILE ORGANIC COMPOUNDS....5-14
5.3.1 Benzene....5-15
5.3.2 1,1-Dichloroethene....5-16
5.3.3 cis-1,2-Dichloroethene....5-17
5.3.4 Ethylbenzene....5-18
5.3.5 Methylene Chloride....5-19
5.3.6 Tetrachloroethene....5-19
5.3.7 Toluene....5-21
5.3.8 1,1,1-Trichloroethane....5-21
5.3.9 Trichloroethene....5-22
5.3.10 Vinyl Chloride....5-24
5.4 PETROLEUM HYDROCARBONS....5-25
5.4.1 Total Petroleum Hydrocarbons....5-26
5.4.2 Diesel-Range Petroleum Hydrocarbons....5-26
5.4.3 Gasoline-Range Petroleum Hydrocarbons....5-27

6.0 Geologic Results....6-1

7.0 References....7-1

List of Tables

Table 2-1 Modifications to Section 3 of the Work Plan
Table 2-2 Construction Summary for Installed Wells
Table 3-1 Detected Constituents in Groundwater Compared to SLs
Table 3-2 Groundwater Analysis Results
Table 3-3 Summary of Groundwater Field Parameter Results
Table 5-1 Detected Constituents in Soil Compared to SLs
Table 5-2 Soil Analysis Results

List of Figures

Figure 2-1 Data Gap Investigation Groundwater and Soil Sampling Locations

Figure 4-1 Mean Groundwater Elevation Contours in the South Yard – Jorgensen Forge Vicinity

List of Attachments

Attachment A Geologic Logs and Monitoring Well As-Built Information

Attachment B Well Development Field Parameter Stabilization Data

Attachment C Survey Locations of Wells and Direct-Push Probes

Attachment D Historical Groundwater Analytical Data

Attachment E Groundwater Data Gaps Investigation Data for Dissolved COCs with Cross-Sections

Part 2

Attachment F Soil Data Gaps Investigation and Historical Data with Cross-Sections

Attachment G Laboratory Data Reports, Data Validation and QA/QC Review Reports

Attachment H Field Documentation

List of Abbreviations/Acronyms

Abbreviation/Acronym	Definition
AOC	Area of Concern
bgs	Below ground surface
CMS	Corrective Measures Study
COC	Constituent of concern
cPAHs	Carcinogenic polycyclic aromatic hydrocarbons
DO	Dissolved oxygen
DRPH	Diesel-range petroleum hydrocarbons
DSOA	Duwamish Sediment Other Area
Ecology	Washington State Department of Ecology
FCMS	Focused Corrective Measures Study
GRPH	Gasoline-range petroleum hydrocarbons
HCID	Hydrocarbon identification
HSA	Hollow-stem auger
IM	Interim measure
mg/kg	Milligrams per kilogram
NGVD	National Geodetic Vertical Datum (1929)
NFA	No Further Action
NTU	Nephelometric turbidity unit
OA	Other Area
ORP	Oxidation-reduction potential
ORPH	Motor oil-range petroleum hydrocarbons
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyl
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SL	Screening Level
SVOC	Semivolatile organic compound

Abbreviation/Acronym	Definition
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
USEPA	U.S. Environmental Protection Agency
VOC	Volatile organic compound
WAC	Washington Administrative Code

Foreword

This Report presents the comprehensive data set for the South Yard Area of Boeing Plant 2 including the results of the Data Gap Investigation. The need for this investigative work was identified by The Boeing Company (Boeing) during the preparation of the Uplands Corrective Measures Study (Uplands CMS), well after the completion of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI). The RFI used a RCRA unit-by-unit approach to investigate the site; when corrective measures were being evaluated for groundwater, this approach was found to be inadequate for remedy selection due to the more integrated nature of groundwater contaminant distributions. Boeing, with the concurrence of the United States Environmental Protection Agency (EPA) has embarked on a series of focused investigations to enable the Uplands CMS to proceed.

EPA clarified the structure of the CMS Data Gaps Investigation/CMS process in their May 2, 2006 letter to Boeing. To complete the CMS process Boeing and EPA agreed the contents of each volume and that the CMS report be structured as follows.

Volume 1 – Uplands CMS Conceptual Hydrogeologic Model

Volume 2, Section 1 – Uplands CMS Target Media Cleanup Levels

Volume 2, Section 2 – Uplands CMS Johnson and Ettinger Site Specific Data Model Report

Volume 2, Section 3 – Background Technical Memorandum

Volume 3 through 9 – Uplands CMS Data Gap Reports (one for each of the seven Plant 2 Areas) Volumes 3 through 9 are to be composed of three parts:

Section A – Uplands CMS Data Gap Work Plan

Section B – Uplands CMS Comprehensive Data Report

Section C – Uplands CMS Alternatives Report

Volume 10 – Comprehensive Uplands CMS Report.

This Comprehensive Data Report comprises Volume IIIb of the CMS, which covers the South Yard Area at Boeing Plant 2. Boeing and EPA have agreed that this report “contain the results from the Data Gap investigation and all other historical data that were used to identify the data gaps investigated in the Work Plan”. However, “analysis will be limited to interpolation or extrapolation, not interpretation, of the data” (EPA, 2006).

The Work Plans, Data Reports and the CMS are being performed under the Administrative Order on Consent (Order) issued by USEPA to Boeing under the authority of Section 3008(h) of the RCRA of 1976, as amended, (42 USC 6928(h)). This Order (RCRA Docket Number 1092-01-22-3008(h)) became effective on January 18, 1994. The Order specifies activities necessary to correct actual or potential threats to human health and the environment resulting from the release or potential release of hazardous constituents from the Boeing Plant 2 Facility located at 7755 East Marginal Way South, Seattle/Tukwila, Washington.

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1.0 Data Gap Investigation Report

1.1 INTRODUCTION

This report presents the results of the investigation conducted to fill South Yard Area data gaps as identified in the approved data gap investigation work plan (EPI, et. al. 2004). This report is divided into six subsections, as described below:

- Section 1.1: Introduction – Summarizes the contents of this report, the process used to evaluate analysis results, and describes how the data will be used in the CMS.
- Section 2.0: Summary of Work Performed – Summarizes field tasks and notes modifications from Work Plan Section 3.
- Section 3.0: Groundwater Analysis Results – Presents analytical results for groundwater samples obtained as part of the Data Gaps Investigation. Data tables and isoconcentration maps for South Yard Area COCs accompany this section.
- Section 4.0: Groundwater Hydrogeologic Results - Presents results of a hydrogeologic study performed to determine the mean groundwater gradient and flow direction along the border between the Facility and the adjacent Jorgensen Forge property.
- Section 5.0: Soil Analysis Results - Presents analytical results for soil samples obtained as part of the Data Gaps Investigation. Data tables for South Yard Area COCs accompany this section.
- Section 6.0: Geologic Results - Presents results of the geologic information recorded during the investigation.

1.1.1 Identification of COCs

The South Yard Area COCs for both groundwater and soil were re-evaluated using the methodology presented in Volume II of the CMS from the RFI, but applied only to the current data from the South Yard Area Data Gaps Investigation. A South Yard Area COC for groundwater or soil is defined as any constituent detected at concentrations greater than the lowest screening level.

1.1.2 Data Gap Analysis Approach and Summary

As presented in Section 2.1 of the Work Plan (EPI et. al., 2004), the data gap analysis process is focused on those data gaps that must be filled to proceed with the corrective measures analysis in the remainder of the CMS. Uncertainties in contaminant extent alone are not considered to be a data gap unless the information is required to select or conceptually design a corrective measure for a RCRA Unit or Remediation Action Area. That is, this information is intended to allow for remedy selection and conceptual design in the CMS, and to support the

Statement of Basis for the decision. Further information may be necessary for planning a specific remedy in a specific area for final design or for performance monitoring purposes during the Corrective Measures Implementation. For the groundwater data gap investigation, results are evaluated on an area-wide basis as opposed to the unit-by-unit approach applied historically for groundwater and soil and currently (for soil) at Plant 2. The unit-by-unit analysis approach was found to be inadequate for remedy selection due to the more integrated nature of groundwater contaminant distributions. For soil, the unit-by-unit approach analysis approach has continued to be applied during data gaps analysis.

1.1.2.1 Data Gap Analysis Approach

During work plan development, data gaps were identified by considering the following CMS questions:

- **Physical Conceptual Site Model:** Is there any area-specific information that is needed to support the physical conceptual site model?
    - **Geologic Data:** Is additional geologic information needed in order to screen or conceptually design remedies?
    - **Hydrogeologic Data:** Is additional hydrogeologic information needed in order to screen or conceptually design groundwater remedies?
- **Current Data:** Are the existing groundwater data sufficiently current to allow for the identification of existing groundwater plumes, a designation of their current extent, and evaluation of whether they are likely to grow, remain steady, or reduce over time? Finally, are there sufficient nature and extent data to screen and conceptually design groundwater remedies?
- **Source Control:** Does sufficient information exist to select source control remedies?
    - **Hot Spots:** Are RCRA units characterized in sufficient detail to select and conceptually design source control remedies?
    - **New Sources:** Have areas of contamination been identified outside of existing RCRA Units that need further definition in order to select and conceptually design source control remedies, and to assign RCRA unit designation, if appropriate?
- **Completed Pathways:** Do sufficient data exist at specific units to determine whether a specific pathway from one media to another is complete? Complete means that the pathway has the potential to impact the affected media above screening levels.
    - What are the physical properties governing transport/migration of the constituent through the subsurface? What is its relative distance from the waterway?

- Are any other constituents present that may facilitate the migration of the constituent? For example, TPH and other solvents can affect the solubility of PCBs and facilitate their transport through soil and groundwater.
- **Soil to Groundwater Pathway:** Are COCs present in soil that impact groundwater above screening levels? Are there corroborating data indicating that groundwater has not been impacted at the location?
- **Groundwater to Surface Water Pathway:** Are COCs present in groundwater that reaches surface water at concentrations that are above screening levels?

- **Background Data:** Is sufficient information available to set background concentrations for metals in groundwater or soil for remedy selection and planning?
- **Exceedance of Screening Levels by Analytical RLs:** For the analytical results reported as not detected ("U" qualified) for the individual COCs, do the RLs exceed the screening levels (SLs)? For constituents where RLs for non-detects ("U" qualified results) exceeded the SLs, the following questions were considered on a case-by-case basis to determine whether the circumstances present a data gap for CMS purposes.
  - Is the RL sufficiently close to the SL that soil or groundwater impacts for that COC can be adequately delineated and quantified for CMS purposes? Note that RLs for Total PCBs may be biased high due to the practice of using the highest individual reported Aroclor RL for the Total PCBs RL.
  - Are the soil RLs for non-detected metal constituents below Ecology's (Ecology, 1994) Puget Sound Basin natural background concentrations. For example, the RL for arsenic in soil is above its SL, but is commonly below its Puget Sound natural background concentration.
  - Are there additional data from adjacent locations or subsequent samples from the same location supporting either the presence or absence of the constituent in the groundwater or soil?
  - Are there other analytical results associated with the sample that render further consideration unnecessary? For example, Aroclor 1260 in soil is reported as not detected at an elevated RL (>33 µg/kg), but Aroclor 1254 is detected at a concentration above the screening level in the same sample. The elevated RL for Aroclor 1254 does not result in a data gap for PCBs since Aroclor was detected in the sample and the PCB result will be above the screening level.

1.1.2.2 Data Gap Investigation Summary

The following points summarize the Data Gap Investigation results evaluation:

- **Physical Conceptual Site Model for the South Yard Area:** Some hydrogeologic data gaps were identified in the Work Plan, and are evaluated and discussed in Section 4.0. In summary, as a result of this investigation, sufficient data exist to provide a general sense of groundwater elevations and groundwater flow direction along the border between Plant 2 and Jorgensen Forge. There are not enough close-spaced water level data to determine flow volumes or exact flow directions across the property line. A more focused water level data-gathering effort would need to be performed to obtain such information. Boeing intends to pursue a joint hydrologic investigation with Jorgensen Forge to provide the additional data needed for this evaluation.
- **Current Data:** The lack of current groundwater data was identified as a data gap in the Work Plan. With the completion of the field work summarized in this report, sufficient current groundwater data were obtained for further evaluation of groundwater COCs, and subsequent remedy selection in the CMS. Details on the results are provided in Sections 3.0 and 4.0 of this report.
- **Source Control:** Some data gaps related to the potential presence of new sources in soil were identified in the Work Plan. With the completion of the field work summarized in this report, sufficient current soil data were obtained to evaluate this data gap, and no new sources have been identified. Details on the results of this evaluation are provided in Section 5.0 of this report.
- **Completed Pathways:** Some data gaps related to contaminant transport via the soil to groundwater pathway were identified in the Work Plan. With the completion of the field work summarized in this report, sufficient data have been obtained to evaluate this data gap. Details on the results of this evaluation are provided in Section 5.0 of this report.
- **Background Data:** This data gap has been filled with the use of the natural background concentrations for metals established for the Puget Sound Basin (Ecology, 1994) for the evaluation of soil results and the use of EPA-accepted site-specific background values for arsenic, copper, and manganese in groundwater. The determination of site-specific background values for these metals in groundwater is documented in a technical memorandum titled *Development and Use of Background Values* (Boeing, 2006).
- **Exceedance of Screening Levels (SLs) by Analytical Reporting Limits (RLs):** Some data gaps related to RLs exceeding SLs were identified in the Work Plan. With the completion of the field work summarized in this report, sufficient data have been obtained to evaluate this data gap. However, the following conditions are worth noting with respect to RL issues: 1) Benzo(a)anthracene and chrysene RLs in soil are slightly above the SLs for EPA Method 8270C analyses. However, all samples analyzed by EPA Method 8270C were also analyzed by EPA Method 8270C SIM and the RLs associated with the SIM method are below the SLs for these two constituents. 2) Silver RLs (0.4 mg/kg) in soil slightly exceeded the SL (0.323 mg/kg) in some (approximately 40 %) of the data gap soil samples. The slightly elevated RLs are due to the variance in the percent solids in the samples analyzed, which

impact the corresponding RLs. 3) Thallium was not detected in any data gap soil samples, however the RLs in soil were greater than the SL. The analytical laboratory inadvertently analyzed thallium by EPA Method 6010 instead of EPA Method 200.8 as required by the Work Plan. Procedures for preliminary data review have been implemented to provide earlier recognition of such situations and ensure there is no re-occurrences.

1.1.3 Data Use

Data collected as part of the South Yard Area Data Gap Investigation will be evaluated, interpreted and applied to future remedy selection in the CMS Volume IIIc.

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2.0 Summary of Work Performed

This section summarizes investigation methods that were used for sampling groundwater and soil in the South Yard Area to fill the data gaps identified Section 2 of the South Yard Area Data Gap Investigation Work Plan. In general, the methods cover:

- Hydrologic investigation of groundwater elevations and mean groundwater flow directions along the Boeing Plant 2 Facility (Facility) / Jorgensen Forge property border.
- Installation of six groundwater monitoring wells located along the property boundary between the Facility and Jorgensen Forge.
- Installation of 12 direct-push (probe) sampling locations located adjacent to existing SWMU/AOC/OA units located in the South Yard Area.
- Groundwater sampling of all existing monitoring wells, new monitoring wells, and direct-push probe installations in the South Yard Area.
- Soil sampling in the vadose zone (0-12 feet bgs) where wells or probes are installed.
- All new monitoring wells and direct-push probe locations were surveyed using standard land surveying techniques.

During the course of performing the planned tasks several modifications needed to be made to accommodate field conditions. In addition, several omissions and minor deviations from the work plan were made during field implementation. Deviations from the work plan are summarized in Table 2-1.

2.1 HYDROLOGIC INVESTIGATION

A focused hydrologic investigation was performed to determine the mean groundwater flow direction in the area along the border between the Facility and Jorgensen Forge.

The objective of this hydrologic investigation was to provide water level elevation data in wells located in the vicinity of the property boundary between the Facility and the adjoining Jorgensen Forge property so that an accurate groundwater flow direction could be defined. Major portions of this field investigation were to:

- Install data logging transducers in 10 wells at the Facility and 10 wells on the Jorgensen Forge property to the south to obtain water level measurements at 10-minute intervals for a minimum of 72 hours from each of the 20 wells selected for this task. All well locations are screened in the A-Level of the aquifer.
- Adjust existing data loggers installed in A-Level wells around the 2-66 Interim Measures system to 10-minute data collection intervals so that these data could be used to enhance data collected specifically for the South Yard Area groundwater flow direction data gap. However, EPA noted that data from wells along the border between the 2-66 Area and Jorgensen Forge were insufficient to make determinations of groundwater flow

and data from these wells were not used for evaluations of groundwater flow in this investigation.

Two of the wells, PL2-JF016 and PL2-JF022, which were originally intended for data logger installation on the Jorgensen Forge property, could not be used due to several feet of free product (likely cutting oil) floating on the groundwater surface. After discussions with EPA and Ecology the two wells containing free product were replaced by wells PL2-JF031 and PL20JF036 which had no floating product. This deviation from the original work plan is summarized in Table 2-1.

Results of the hydrologic investigation are presented and discussed in Section 4.0.

2.2 MONITORING WELL INSTALLATION

Six groundwater monitoring wells (PL2-601A, PL2-601B, PL2-602A, PL2-602B and PL2-603A, PL2-603B) were installed at three locations along the southwestern property border between the Facility and Jorgensen Forge in the South Yard Area. Each of the three well locations includes two co-located wells; one well installed in the A-Level and one well installed in the B-Level of the aquifer. Monitoring well locations were adjusted slightly from the proposed locations presented in Section 3 of the South Yard Area Data Gap Investigation Work Plan to avoid drilling under overhead power lines. The modifications to well locations are noted in Table 2-1. Proposed and actual monitoring well locations are shown in Figure 2-1.

All six boreholes were drilled using standard hollow-stem-auger (HSA) drilling techniques. During drilling soil was sampled following the soil sampling procedures listed in Section 3 of the South Yard Area Data Gap Investigation Work Plan. All six new monitoring wells were installed to meet Washington State Department of Ecology (Ecology) resource protection well construction standards found in WAC 173-160-420, Minimum Standards for Construction and Maintenance of Wells. Well construction details are presented in Table 2-2 and are shown graphically on the geologic logs and as-built diagrams presented in Attachment A.

2.3 MONITORING WELL DEVELOPMENT

New monitoring wells were developed by the drilling subcontractor using a combination of pumping and surging and were completed by continuous pumping at a steady rate using a submersible pump following procedures described in Section 3 of this Volume. Well development was performed until the wells were free of sediment to the satisfaction of the EPI engineer.

During well development the field parameters pH, temperature, conductivity, and turbidity were measured and recorded by Environmental Partners Inc. (EPI's) onsite engineer. In addition, color changes of water before, during, and after development were observed and recorded. Field parameter data obtained during well development are presented in Attachment B.

Characterization and disposal of well development water was completed by Boeing. Hazardous wastes are managed per the requirements in "*Dangerous Waste Regulations, Chapter 173-303 WAC*". Wastes are either manifested to a TSDF permitted to accept the material or treated on site in the Boeing Clean Water Act-permitted Ground Water Treatment System.

TSCA-regulated PCB wastes at Plant 2 are managed per the requirements in "*Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, 40 CFR 761."* TSCA-regulated PCB wastes are shipped to facilities meeting the requirements of 40 CFR 761. However, no TSCA-regulated PCB wastes were generated in association with the South Yard data gaps investigation.

2.4 DIRECT-PUSH PROBE INSTALLATION

Soil and groundwater were sampled by direct-push methods at 12 locations in the South Yard Area as part of this data gap investigation. Probes were driven to the A-level of the aquifer only generally to a depth of 18 feet bgs. At each of the 12 direct-push probe locations soil samples were collected from three intervals in the vadose zone (0 to 1, 4 to 5, and 9 to 10 ft. bgs). Groundwater samples were collected from the 15 to 18 ft. bgs interval at each of the 12 direct-push probe locations. Direct-push probe locations are shown in Figure 2-1.

All direct-push probe locations were backfilled with bentonite grout upon completion of sampling. Surfaces were completed to match the surrounding surface material which was generally asphalt or concrete.

Analytical results for groundwater samples collected from direct-push probe locations are presented in Section 3.0. Soil sample results from direct-push probe locations are presented in Section 5.0.

2.5 GROUNDWATER SAMPLING

Boeing sampled the six new monitoring wells, 27 existing monitoring wells and 12 direct-push probe locations to provide current COC concentrations in South Yard Area groundwater for the data gap investigation. Groundwater sampling procedures included water level measurements, well purging, containment of purge water, collection of field parameter data during purging and sample collection for laboratory analysis.

Monitoring wells were purged prior to sampling using a submersible pump and low-flow purging procedures. Low-flow purging procedures were used to minimize disturbance associated with turbidity and to provide quicker stabilization time for measured field parameters. Stabilized readings for oxidation-reduction potential (ORP) and dissolved oxygen (DO) were collected at the end of low-flow purging and recorded as part of the redox parameter suite. Following field parameter stabilization, groundwater samples were collected using a submersible pump following the Low-Flow Well Sampling Procedure (USEPA 1996).

To the extent possible, wells were not be purged to dryness. However, if a well exhibited very slow water level recovery and was purged to dryness, groundwater samples were collected

upon sufficient recovery. Sufficient recovery is considered as recovery to at least 80 percent of original static water level prior to purging.

Groundwater samples from direct-push probes were field-filtered for metal analyses due to high turbidity values (greater than 5 NTU) in purge water from all direct-push probes. In-line filters in the flow-through cell were used to avoid introduction of oxygen into the sample. Groundwater samples from monitoring wells included both total (unfiltered) samples and dissolved (filtered) samples for metal analyses.

Analytical results for groundwater samples collected from monitoring well and probe locations are presented in Section 3.0.

2.6 SOIL SAMPLING

Soil samples were collected for laboratory analysis and geologic logging as part of the monitoring well drilling and direct-push probe sampling tasks. Soil samples obtained for laboratory analysis were collected at three discrete intervals (0 to 1, 4 to 5, and 9 to 10 ft. bgs). Below the water table (12 ft. bgs), soil samples were obtained at 5 foot intervals for geologic logging purposes only.

Soil samples from the vadose zone were obtained using decontaminated split-spoon samplers equipped with new single-use liners. Soil samples from below the water table were intended for geologic logging only and were obtained using a decontaminated split-spoon sampler not equipped with liners.

Analytical results for soil samples collected from boreholes and direct-push probe locations are presented in Section 5.0. Geologic logging data from boreholes and direct-push probe locations are presented in Section 6.0.

2.7 SURVEYING

Two surveying tasks were performed as part of the South Yard Area data gaps investigation. The first surveying task was to survey the 20 wells used in the hydrologic investigation. This was needed because Jorgensen Forge wells were surveyed to a different datum than monitoring wells at the Facility and some of the Jorgensen elevations were questionable.

The second surveying task was performed following drilling and probing was completed. After installation, the new groundwater monitoring wells and direct-push probe locations were surveyed by Duane Hartman & Associates.

All surveyed points associated with the South Yard Area data gap investigation were surveyed from the National Geodetic Datum 1929 (NGVD 1929) for vertical control to an accuracy of within 0.01 foot. Horizontal control was surveyed to the North American Datum 1983, 1991 (NAD 83[91]) Washington State North Zone to an accuracy of 0.1 foot.

Survey results for hydrologic investigation wells, new monitoring wells and direct-push probe locations are presented in Attachment C.

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3.0 Groundwater Analysis Results

This section presents data gap investigation results for each South Yard Area groundwater Constituent of Concern (COC). Site wide COCs that were detected above their respective screening levels during the South Yard Area data gap investigation are added as area-specific COCs for the South Yard Area in the following sections and will be identified as new area-specific COCs in the following text.

Analytical results for all constituents detected in groundwater samples collected as part of the South Yard Area Data Gap Investigation are summarized in Table 3-1. All analytical results, including constituents that were not detected in South Yard Area data gap investigation groundwater samples, are presented in Table 3-2. Field parameters associated with final purge volumes at each of the South Yard Area groundwater sampling locations are summarized in Table 3-3. Concentration contour maps provided in Attachment E also include the Data Gaps Investigation results.

3.1 INORGANICS

Groundwater samples were collected and chemical analysis conducted for priority pollutant metals plus manganese and hexavalent chromium (chromium VI), in association with the South Yard Data Gaps Investigation. Six inorganics, all metals, are included in the original South Yard Area-specific groundwater COC list. Hexavalent chromium was detected in only one sample from well PL2-154A at a concentration of 12 µg/L which is below the 50 µg/L screening level for hexavalent chromium in groundwater.

In addition to the six original area-specific metal COCs two additional inorganic constituents were detected above their respective screening levels in dissolved (filtered) samples during the South Yard Area data gap investigation. The two additional inorganic COCs for the South Yard Area are mercury and zinc. Chromium was also detected above its screening level in one total (unfiltered) groundwater sample from well PL2-117A but this detection could be attributed to high turbidity of 158 NTU rather than actual groundwater quality conditions. Turbidity data for all groundwater samples are presented in Table 3-3.

Arsenic	Manganese	Mercury (added)
Copper	Nickel (soluble salts)	Zinc (added)
Lead	Selenium	

The COC metals data generated by the South Yard Area data gaps investigation are presented in the following sections. Data gap investigation data are plotted on South Yard Area maps for dissolved inorganics analytical results for all six original inorganic COCs and the two additional inorganic COC noted above. Both total and dissolved results are presented on the maps. However, only dissolved results are used for data interpretation for the following reasons:

- All direct-push probe samples were filtered and no total results were taken due to high turbidity (> 5 NTU) in all probe samples.

- Using filtered samples minimizes the effects of turbidity on sample results. Turbidity can be affected by sampling technique, well construction, and well development which are independent of actual groundwater quality conditions.

- Screening levels are based on the protection of surface water and surface water standards are based on dissolved constituent levels rather than totals.

The following data summary sections for South Yard Area inorganic COCs are based on evaluations of analytical results for dissolved inorganics samples only.

3.1.1 Arsenic

The scope of the data gaps investigation for arsenic in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time arsenic was analyzed in 133 South Yard Area groundwater samples and was detected in 94 of those samples. Ninety-three of the 94 historical arsenic detections were greater than the screening level for protection of surface water of 0.2 µg/L. A thorough discussion of the historical arsenic results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan (EPI, et. al., 2004). Historical arsenic data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation arsenic was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Forty of the 45 samples analyzed for arsenic had detections above the arsenic screening level of 0.2 µg/L. Four of the remaining five samples were non-detect at reporting limits higher than the screening level and only one sample was non-detect at a reporting limit of 0.2 µg/L.

The screening level for arsenic in groundwater has been adjusted to a background concentration of 8.0 µg/L in the Plant 2 area. Twenty-two of the 45 data gap investigation results were above the background-adjusted arsenic screening level of 8.0 µg/L. Arsenic data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved arsenic in the A, B, and C levels of the aquifer is presented in Attachment E. Areas where groundwater samples were above the background-adjusted arsenic screening level of 8.0 µg/L are highlighted on the map. The dissolved arsenic concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the arsenic screening level. A cross sectional view of dissolved arsenic concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gaps investigation analytical results for dissolved arsenic in groundwater range from non-detect at a reporting limit of 0.2 µg/L to 99.8 µg/L with the highest concentration (99.8 µg/L) in a sample from well PL2-156A. Total arsenic results for the data gaps investigation range from 0.4 µg/L to 106 µg/L with the highest concentration of 106 µg/L also noted in the sample from well PL2-156A. Well PL2-156A is located within SWMU 2-89.68, Reclamation Yard.

3.1.2 Copper

The scope of the data gaps investigation for copper in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time copper was analyzed in 140 South Yard Area groundwater samples and was detected in 44 of those samples. Fifteen of the 44 historical copper detections were greater than the screening level for protection of surface water of 3.1 µg/L. A thorough discussion of the historical copper results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical copper data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation copper was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that copper was not detected above its screening level of 3.1 µg/L in any of the dissolved (filtered) samples from the South Yard Area; however, copper was detected above its screening level in the total (unfiltered) groundwater samples from three wells, PL2-115A, PL2-117A, and PL2-153A at concentrations of 4.3 µg/L, 52.4 µg/L, and 4.2 µg/L, respectively.

The screening level for copper in groundwater has been adjusted to a background concentration of 8.0 µg/L in the Plant 2 area. None of the dissolved copper concentrations and only one of the total copper concentration results exceed the background-adjusted screening level for copper of 8.0 µg/L. The total copper value of 52.4 µg/L for the sample from PL2-117 may be biased high because the sample had a turbidity value of 158 NTU. Copper data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved copper in the A, B, and C levels of the aquifer is presented in Attachment E. There are no areas of dissolved copper concentrations in groundwater above its background-adjusted screening level to highlight on the map. The dissolved copper concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the copper screening level. A cross sectional view of dissolved copper concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for dissolved copper in groundwater range from non-detect at a reporting limit of 0.5 µg/L to a the maximum dissolved copper concentration in the sample from well PL2-106AR, located in SWMU 2-89.68, Reclamation Yard. Total copper

results from the data gap investigation results range from non-detect at a reporting limit of 0.5 µg/L to 52.4 µg/L in a sample from well PL2-117A; however, this sample had a high turbidity of 158 NTU and therefore the result may be biased high.

3.1.3 Lead

The scope of the data gaps investigation for lead in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time lead was analyzed in 140 South Yard Area groundwater samples and was detected in 29 of those samples. One of the 29 historical lead detections was greater than the screening level for protection of surface water of 8.1 µg/L. A thorough discussion of the historical lead results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical lead data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation lead was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that lead was not detected in any of the dissolved (filtered) groundwater samples from the South Yard Area. Lead was detected at 12 µg/L in the total (unfiltered) sample from well PL2-117A, however, the sample had a high turbidity value of 158 NTU and may represent a false positive for lead caused by particulate matter suspended in the sample. Turbidity data for all South Yard Area groundwater sampling locations are presented in Table 3-3. Lead data from the South Yard Area Data Gap Investigation are summarized in Table 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved lead in the A, B, and C levels of the aquifer is presented in Attachment E. There are no areas of dissolved lead concentrations above its screening level to highlight on the map. The dissolved lead concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the lead screening level. A cross sectional view of dissolved lead concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for dissolved lead in groundwater range from non-detect at a reporting limit of 1.0 µg/L to non-detect at a reporting limit of 5.0 µg/L. Total lead results from the data gap investigation results range from non-detect at a reporting limit of 1.0 µg/L to 12.0 µg/L in a sample from well PL2-117A; however, this sample had a high turbidity of 158 NTU and is therefore the results may be biased high.

3.1.4 Manganese

The scope of the data gaps investigation for manganese in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time manganese was analyzed in 66 South

Yard Area groundwater samples and was detected in all 66 of those samples. Sixty-two of the 66 historical manganese detections were greater than the screening level for protection of surface water of 100 µg/L. A thorough discussion of the historical manganese results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical manganese data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation manganese was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that manganese was detected above its screening level of 100 µg/L in all but one of the dissolved and all but one of the total manganese samples from the South Yard Area. Approximately one third of the detected concentrations of manganese were greater than 2,000 µg/L.

Boeing worked with EPA to adjust the screening level for manganese in groundwater for background conditions. However, because of the extreme sensitivity of manganese solubility to redox conditions, the heterogeneity of the fill material, and the variety of natural and man-made effects on manganese concentrations using a fixed background value or even a background distribution for manganese is problematic. Therefore, Boeing proposed an approach that incorporates the concept of trend plots commonly used to monitor manganese concentrations in groundwater at RCRA landfills. This approach is delineated in *Technical Memorandum: Development and Use of Background Values* (Boeing, 2006). Manganese data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved manganese in the A, B, and C levels of the aquifer is presented in Attachment E. The dissolved manganese concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the manganese screening level. A cross sectional view of dissolved manganese concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for dissolved manganese in groundwater range from 90 µg/L to 6,930 µg/L with the highest concentration detected in a sample from direct-push probe DP-SY-04. Total manganese results from the data gap investigation results range from 96 µg/L to 4,850 µg/L with the highest concentration detected in a sample from well PL2-156A located in SWMU 2-89.68, Reclamation Yard.

3.1.5 Nickel (Soluble Salts)

The scope of the data gaps investigation for nickel in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time nickel was analyzed in 114 South Yard Area groundwater samples and was detected in 44 of those samples. Five of the 44 historical nickel detections were greater than the screening level for protection of surface water of 8.2 µg/L. A thorough discussion of the historical nickel results prior to this data gap investigation is

provided in the South Yard Area Data Gaps Investigation Work Plan. Historical nickel data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation nickel was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that although nickel was detected in all 45 groundwater samples nickel was not detected above its screening level of 8.2 µg/L in any of the dissolved (filtered) samples from the South Yard Area. The highest detected value for dissolved nickel was 7.0 µg/L in a sample from well PL2-106C. Two samples, from wells PL2-112B and PL2-117A had total nickel concentrations of 9.5 µg/L, respectively. However, both samples had turbidity values that were above the 5 NTU criterion for usable totals data and may be biased high. See Table 3-3 for turbidity values. Nickel data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved nickel in the A, B, and C levels of the aquifer is presented in Attachment E. There are no areas of dissolved nickel concentrations above its screening level to highlight on the map. The dissolved nickel concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the nickel screening level. A cross sectional view of dissolved nickel concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for dissolved nickel in groundwater ranged from 0.5 µg/L to 7.0 µg/L with the highest concentration detected in the sample from well PL2-106C, located in SWMU 2-89.68, Reclamation Yard. Total nickel results from the data gap investigation results range from non-detect at a reporting limit of 1.0 µg/L to 27.2 µg/L in a sample from well PL2-117A; however, this sample had a high turbidity of 158 NTU and therefore may be biased high.

3.1.6 Selenium

The scope of the data gaps investigation for selenium in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time selenium was analyzed in 129 South Yard Area groundwater samples and was detected in 14 of those samples. Four of the 14 historical selenium detections were greater than the screening level for protection of surface water of 71.0 µg/L. A thorough discussion of the historical selenium results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical selenium data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation selenium was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that selenium was not detected in any dissolved (filtered)

samples from the South Yard Area; however, three of the non-detects, from wells PL2-106C, PL2-110C, and PL2-155C, were at a reporting limit of 100 µg/L. There were also no detections of total selenium in the data gap investigation data although two non-detect reporting limits were at 100 µg/L in wells PL2-155C and PL2-106C. The elevated reporting limits noted above were all in samples from C-level wells and were reported by the analytical laboratory to be due to matrix interferences caused by the saline groundwater at depth. Selenium data from the South Yard Area Data Gap Investigation are summarized in Table 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved selenium in the A, B, and C levels of the aquifer is presented in Attachment E. There are no areas of dissolved selenium concentrations above its screening level to highlight on the map. The dissolved selenium concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the selenium screening level. A cross sectional view of dissolved selenium concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for dissolved selenium in groundwater range from non-detect at a reporting limit of 50 µg/L to non-detect at a reporting limit of 100 µg/L. Total selenium results from the data gap investigation also range from non-detect at a reporting limit of 50 µg/L to non-detect at a reporting limit of 100 µg/L. All samples with reporting limits of 100 µg/L were from C-level wells and were the result of matrix interference by saline groundwater.

3.1.7 Mercury

Mercury was not originally an area-specific COC for the South Yard Area and therefore there are no data gaps for mercury identified in Section 2 of the South Yard Area Data Gap Investigation Work Plan. Historical data for mercury are presented in Attachment D.

During the South Yard Area Data Gaps Investigation mercury was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Mercury (dissolved) was detected in one well, PL2-154A, at a concentration of 0.0604 µg/L which is above the mercury screening level of 0.025 µg/L for the protection of surface water. Because dissolved mercury was detected above its screening level in South Yard Data Gap Investigation data it has been added to the list of area-specific COCs for the South Yard Area. In addition, one sample, from well PL2-117A had a total mercury concentration of 0.0332 µg/L. However, the sample from well PL2-117A had a turbidity value of 158 NTU and therefore may be biased high. See Table 3-3 for turbidity values. None of the mercury detections were above the mercury screening level for the protection of indoor air which is 184.31 µg/L. Mercury data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved mercury in the A, B, and C levels of the aquifer is presented in Attachment E. There is only one limited area with one dissolved mercury concentration above its screening level to highlight on the map. The dissolved mercury concentration map also displays historical data for locations that were

not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted area currently above the mercury screening level. A cross sectional view of dissolved mercury concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for dissolved mercury in groundwater range from non-detect at a reporting limit of 0.025 µg/L to 0.0604 µg/L with the highest concentration detected in a sample from well PL2-154A located downgradient of SWMU 79, Cistern 4 and SWMU 2-87.65, Machine Pit, and OA 16, Central Waste Storage Area. Total mercury results from the data gap investigation results range from non-detect at a reporting limit of 0.025 µg/L to 0.0332 µg/L in a sample from well PL2-117A; however, this sample had a high turbidity of 158 NTU and therefore may be biased high.

3.1.8 Zinc

Zinc was historically detected in the South Yard Area but was not originally an area-specific COC because detected concentrations were all below its screening level. Because zinc was not a South Yard Area COC there are no data gaps for zinc identified in Section 2 of the South Yard Area Data Gap Investigation Work Plan. Historical data for zinc are presented in Attachment D.

During the South Yard Area Data Gaps Investigation zinc was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Zinc (dissolved) was detected in groundwater samples from 15 locations in the South Yard Area and was detected above its screening level of 81 µg/L in two of those 15 detections. The two dissolved zinc detections were in samples from new wells PL2-602B and PL2-603B at concentrations of 717 and 382 µg/L, respectively. In addition, three samples had total zinc results above 81 µg/L. The samples from PL2-602B, PL2-603B, and PL2-117A had total zinc concentrations of 953 µg/L, 414, µg/L and 215 µg/L, respectively. All three samples, and most notably the sample from PL2-117A, had turbidities greater than 5 NTU which is the criterion for usable totals data. See Table 3-3 for turbidity values. Zinc data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for dissolved zinc in the A, B, and C levels of the aquifer is presented in Attachment E. The area with dissolved zinc concentrations above its screening level are highlighted on the map. The dissolved zinc concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted area currently above the zinc screening level. A cross sectional view of dissolved zinc concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for dissolved zinc in groundwater range from non-detect at a reporting limit of 6.0 µg/L to 717 µg/L with the highest detected concentration in a sample from well PL2-602B located in SWMY 2-89.68, Reclamation Yard. Total zinc results from the

data gap investigation results range from non-detect at a reporting limit of 6.0 µg/L to 953 µg/L with the highest detected concentration in a sample from well PL2-602B.

3.2 SEMIVOLATILE CONSTITUENTS AND POLYCHLORINATED BIPHENYLS

Groundwater samples were collected and chemical analysis conducted for semivolatile constituents (SVOCs) by EPA method 8270C and 8270 with SIM and for polychlorinated biphenyls (PCBs) by EPA Method 8082. These analyses were performed on groundwater samples collected from selected sampling locations (as noted in Table 2-2 of the South Yard Area Data Gap Investigation Work Plan) in association with the South Yard Data Gaps Investigation. Two SVOCs and one PCB Aroclor are included in the original South Yard Area-specific groundwater COC list. The two SVOC and one PCB that were originally identified as area-specific COCs in groundwater for the South Yard Area are:

2,4-Dimethylphenol	bis(2-ethyhexyl)phthalate	Aroclor 1254

Five additional SVOC constituents were detected in samples collected during the South Yard Area Data Gap Investigation. However, none of the five additional SVOCs were detected above their applicable screening levels. Therefore, there are no additional area-specific COCs to report among the SVOC and PCB constituent groups. The additional SVOCs that were detected were: 2-methylphenol, 4-chloro-3-methylphenol, 4-methylphenol, di-n-butylphthalate, and phenol.

Analytical data generated by the South Yard Area Data Gaps Investigation for the SVOC and PCB constituent groups are presented in the following sections.

3.2.1 2,4-Dimethylphenol

The scope of the data gaps investigation for 2,4-dimethylphenol in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time 2,4-dimethylphenol was analyzed in 35 South Yard Area groundwater samples and was detected in two of those samples. One of the two historical 2,4-dimethylphenol detections was greater than the screening level for protection of surface water of 201 µg/L. A thorough discussion of the historical 2,4-dimethylphenol results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical data for 2,4-dimethylphenol are presented in Attachment D.

During the South Yard Area Data Gaps Investigation SVOCs, including 2,4-dimethylphenol were analyzed in groundwater samples collected at two of the six new monitoring wells, 12 existing monitoring wells, and nine of the direct-push probes associated with the South Yard Area data gap investigation for a total of 23 results. Analytical results indicate that 2,4-dimethylphenol was detected at two locations, PL2112A and PL2-117 at concentrations of 97 µg/L and 77 µg/L, respectively. Both detected 2,4-dimethylphenol concentrations are less than half of the

screening level. 2,4-Dimethylphenol data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for 2,4-dimethylphenol in the A level of the aquifer is presented in Attachment E. There are no areas of 2,4-dimethylphenol concentrations above its screening level to highlight on the map. The 2,4-dimethylphenol concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate highlighted areas currently above the 2,4-dimethylphenol screening level. A cross sectional view of 2,4-dimethylphenol concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for 2,4-dimethylphenol in groundwater range from non-detect at a reporting limit of 1.0 µg/L to 97 µg/L with the highest detected concentration in a sample from well PL2-112A, located immediately downgradient of SWMU 2-91.70, Deactivated Waste Oil and Coolant Storage Area.

3.2.2 bis(2-Ethylhexyl)phthalate

The scope of the data gaps investigation for bis(2-ethylhexyl)phthalate in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time bis(2-ethylhexyl)phthalate was analyzed in 44 South Yard Area groundwater samples and was detected in eight of those samples. Seven of the eight historical bis(2-ethylhexyl)phthalate detections were greater than the screening level for protection of surface water of 3.0 µg/L. A thorough discussion of the historical bis(2-ethylhexyl)phthalate results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical data for bis(2-ethylhexyl)phthalate are presented in Attachment D. All historical detections above the screening level may not be depicted on the COC map in Attachment E because for locations with multiple results only the maximum detected concentration is shown.

During the South Yard Area Data Gaps Investigation SVOCs, including bis(2-ethylhexyl)phthalate were analyzed in groundwater samples collected at two of the six new monitoring wells, 12 existing monitoring wells, and nine of the direct-push probes associated with the South Yard Area data gap investigation for a total of 23 results. Analytical results indicate that bis(2-ethylhexyl)phthalate was not detected in any samples from the South Yard Area Data Gap Investigation. Bis(2-ethylhexyl)phthalate data from the South Yard Area Data Gap Investigation are summarized in Table 3-2.

A South Yard Area map displaying current data gap investigation data for bis(2-ethylhexyl)phthalate in the A level of the aquifer is presented in Attachment E. There are no areas of bis(2-ethylhexyl)phthalate concentrations above its screening level to highlight on the map. The bis(2-ethylhexyl)phthalate concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate highlighted areas currently above the bis(2-ethylhexyl)phthalate screening level. A cross sectional view of bis(2-ethylhexyl)phthalate

concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for bis(2-ethylhexyl)phthalate in groundwater are all non-detect at a reporting limit of 1.0 µg/L.

3.2.3 Aroclor 1254

The scope of the data gaps investigation for Aroclor 1254 in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time Aroclor 1254 was analyzed in 49 South Yard Area groundwater samples and was detected in nine of those samples. All nine of the historical Aroclor 1254 detections were greater than the screening level for protection of surface water of 0.01 µg/L. A thorough discussion of the historical Aroclor 1254 results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical Aroclor 1254 data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation PCBs, including Aroclor 1254, were analyzed in groundwater samples collected at three of the six new monitoring wells, 13 existing monitoring wells, and all 12 of the direct-push probes associated with the South Yard Area data gap investigation for a total of 28 results. Analytical results indicate that Aroclor 1254 was not detected in any samples from the South Yard Area Data Gap Investigation. Aroclor 1254 data from the South Yard Area Data Gap Investigation are summarized in Table 3-2.

A South Yard Area map displaying current data gap investigation data for Aroclor 1254 in the A level of the aquifer is presented in Attachment E. There are no areas of Aroclor 1254 concentrations above its screening level to highlight on the map. The Aroclor 1254 concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate highlighted areas currently above the Aroclor 1254 screening level. A cross sectional view of Aroclor 1254 concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for Aroclor 1254 in groundwater are all non-detect at a reporting limit of 1.0 µg/L.

3.3 VOLATILE ORGANIC COMPOUNDS

Groundwater samples were collected and chemical analysis conducted for volatile organic compounds (VOCs) by EPA method 8260B. These analyses were performed on groundwater samples collected from all South Yard Area sampling locations as noted in Table 2-2 of the South Yard Data Gap Investigation Work Plan. Seven VOCs are included in the original South Yard Area-specific groundwater COC list.

The seven VOCs that were originally identified as area-specific COCs in groundwater for the South Yard Area are:

Benzene	Tetrachloroethene	Trichloroethene
1,1-Dichloroethene	1,1,2-Trichloroethane	Vinyl Chloride
cis-1,2-Dichloroethene		

There were a total of 18 additional VOCs that were detected in groundwater samples collected during the South Yard Area data gap investigation. None of these 18 additional VOCs were detected at concentrations above their respective screening levels; therefore, no new COCs for the VOC constituent group are added to the South Yard Area COC list.

Analytical data generated by the South Yard Area data gaps investigation for the VOC constituent group are presented in the following sections.

3.3.1 Benzene

The scope of the data gaps investigation for benzene in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time benzene was analyzed in 165 South Yard Area groundwater samples and was detected in 25 of those samples. Seven of the 25 historical benzene detections were greater than the screening level for protection of surface water of 4.48 µg/L. None of the detected benzene concentrations was greater than the screening level for the protection of air of 1,400 µg/L. A thorough discussion of the historical benzene results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical benzene data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation benzene was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that benzene was detected in nine groundwater samples and detected above its screening level of 4.48 µg/L in two groundwater samples from the South Yard Area. The two benzene detections above the screening level were in samples from wells PL2-113A and PL2-603A at concentrations of 5.3 µg/L and 5.7 µg/L, respectively. Both wells are screened in the A-level of the aquifer adjacent to SWMU 2-78.1 (Oil/water separator) and SWMU 2-91.70 (Deactivated waste oil and coolant storage area). Benzene data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for benzene in the A, B, and C levels of the aquifer is presented in Attachment E. Other than two small areas of the A-level of the aquifer there are no areas of benzene concentrations above its screening level to highlight on the map. The benzene concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the

benzene screening level. A cross sectional view of benzene concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for benzene in groundwater range from non-detect at a reporting limit of 0.2 µg/L to 5.7 µg/L with the highest detected concentration in a sample from well PL2-603A, located in SWMU 2-89.68, Reclamation Yard.

3.3.2 1,1-Dichloroethene

The scope of the data gaps investigation for 1,1-dichloroethene in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time 1,1-dichloroethene was analyzed in 164 South Yard Area groundwater samples and was detected in 22 of those samples. One of the historical 1,1-dichloroethene detections was greater than the screening level for protection of surface water of 0.382 µg/L. None of the detected 1,1-dichloroethene concentrations was greater than the screening level for the protection of air of 42.3 µg/L. A thorough discussion of the historical 1,1-dichloroethene results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical 1,1-dichloroethene data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation 1,1-dichloroethene was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that 1,1-dichloroethene was detected in five groundwater samples and was detected above its screening level of 0.382 µg/L in three groundwater samples from wells PL2-112A and PL2-113A and from probe DP-SY-10 in the South Yard Area. All 1,1-dichloroethene detections were in samples from the A-level of the aquifer. Current 1,1-dichloroethene detections are concentrated at SWMU 2-91.70 (Deactivated waste oil and coolant storage area) and SWMU 78.5 (Oil/water separator). The highest concentration occurred at PL2-112A (1.9 ug/l), which is adjacent to the deactivated waste oil and coolant area SWMU 2-91.70. The screening level was also exceeded at DP-SY-10 (0.4 ug/l) near SWMU 78.5. 1,1-Dichloroethene data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for 1,1-dichloroethene in the A, B, and C levels of the aquifer is presented in Attachment E. Other than two small areas of the A-level of the aquifer there are no areas of 1,1-dichloroethene concentrations above its screening level to highlight on the map. The 1,1-dichloroethene concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the 1,1-dichloroethene screening level. A cross sectional view of 1,1-dichloroethene concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for 1,1-dichloroethene in groundwater range from non-detect at a reporting limit of 0.2 µg/L to 1.9 µg/L with the highest detected concentration in a

sample from PL2-112A, located adjacent to SWMU 2-91.70, Deactivated Waste Oil and Coolant Area.

3.3.3 cis-1,2-Dichloroethene

The scope of the data gaps investigation for cis-1,2-dichloroethene in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time cis-1,2-dichloroethene was analyzed in 154 South Yard Area groundwater samples and was detected in 74 of those samples. Three of the 74 historical cis-1,2-dichloroethene detections were greater than the screening level for protection of surface water of 1,130 µg/L. None of the detected cis-1,2-dichloroethene concentrations was greater than the screening level for the protection of air of 15,100 µg/L. A thorough discussion of the historical cis-1,2-dichloroethene results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical cis-1,2-dichloroethene data are presented in Attachment D. All historical detections above the screening level may not be depicted on the COC map in Attachment E because for locations with multiple results only the maximum detected concentration is shown.

During the South Yard Area Data Gaps Investigation cis-1,2-dichloroethene was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that cis-1,2-dichloroethene was detected in 24 groundwater samples but was not detected above its screening level of 1,130 µg/L in any groundwater samples from the South Yard Area. All cis-1,2-dichloroethene detections were in samples from the A-level of the aquifer. Cis-1,2-Dichloroethene data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for cis-1,2-dichloroethene in the A, B, and C levels of the aquifer is presented in Attachment E. There are no areas of cis-1,2-dichloroethene concentrations above its screening level to highlight on the map. The cis-1,2-dichloroethene concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the cis-1,2-dichloroethene screening level. A cross sectional view of cis-1,2-dichloroethene concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for cis-1,2-dichloroethene in groundwater range from non-detect at a reporting limit of 0.2 µg/L to 83 µg/L with the highest detected concentration in the sample from direct-push probe DP-SY-10. This probe location is downgradient of AOC 2-80.58, Deactivated Sump and SWMU 78.5, Oil/Water Separator.

3.3.4 Tetrachloroethene

The scope of the data gaps investigation for tetrachloroethene in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time tetrachloroethene was

analyzed in 164 South Yard Area groundwater samples and was detected in 15 of those samples. Twelve of the 15 historical tetrachloroethene detections were greater than the screening level for protection of surface water of 0.822 µg/L. None of the detected tetrachloroethene concentrations was greater than the screening level for the protection of air of 1,520 µg/L. A thorough discussion of the historical tetrachloroethene results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical tetrachloroethene data are presented in Attachment D. All historical detections above the screening level may not be depicted on the COC map in Attachment E because for locations with multiple results only the maximum detected concentration is shown.

During the South Yard Area Data Gaps Investigation tetrachloroethene was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Analytical results indicate that tetrachloroethene was detected in three groundwater samples from the South Yard Area and was detected above its screening level of 0.822 µg/L in two groundwater samples from wells PL2-112A and PL2-113A at concentrations of 3.8 µg/L and 1.2 µg/L, respectively. All tetrachloroethene detections were in samples from the A-level of the aquifer. Tetrachloroethene data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for tetrachloroethene in the A, B, and C levels of the aquifer is presented in Attachment E. There is one area of tetrachloroethene concentrations above its screening level adjacent to SWMU 2-91-70 (Deactivated waste oil and coolant storage area). This area is highlighted on the map. The tetrachloroethene concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the tetrachloroethene screening level. A cross sectional view of tetrachloroethene concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for tetrachloroethene in groundwater range from non-detect at a reporting limit of 0.2 µg/L to 3.8 µg/L with the highest detected concentration in a sample from well PL2-112A. PL2-112A is located immediately downgradient of SWMU 2-91.70, Deactivated Waste Oil and Coolant Storage Area.

3.3.5 1,1,2-Trichloroethane

The scope of the data gaps investigation for 1,1,2-trichloroethane in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time 1,1,2-trichloroethane was analyzed in 164 South Yard Area groundwater samples and was detected in three of those samples. One of the three historical 1,1,2-trichloroethane detections was greater than the screening level for protection of surface water of 5.0 µg/L. None of the detected 1,1,2-trichloroethane concentrations was greater than the screening level for the protection of air of 3,670 µg/L. A thorough discussion of the historical 1,1,2-trichloroethane results prior to this data

gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical 1,1,2-trichloroethane data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation 1,1,2-trichloroethane was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. 1,1,2-Trichloroethane was not detected in any groundwater samples collected during the South Yard Area data gap investigation. 1,1,2-Trichloroethane data from the South Yard Area Data Gap Investigation are summarized in Table 3-2.

A South Yard Area map displaying current data gap investigation data for 1,1,2-trichloroethane in the A, B, and C levels of the aquifer is presented in Attachment E. There are no areas of 1,1,2-trichloroethane concentrations above its screening level in the South Yard Area. The 1,1,2-trichloroethane concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the 1,1,2-trichloroethane screening level. A cross sectional view of 1,1,2-trichloroethane concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for 1,1,2-trichloroethane in groundwater range from non-detect at a reporting limit of 0.2 µg/L to non-detect at a reporting limit of 1.0 µg/L.

3.3.6 Trichloroethene

The scope of the data gaps investigation for trichloroethene in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time trichloroethene was analyzed in 164 South Yard Area groundwater samples and was detected in 55 of those samples. Forty-one of the 55 historical trichloroethene detections were greater than the screening level for protection of surface water of 0.302 µg/L. Eleven of the historical trichloroethene concentrations were also greater than the screening level for the protection of air of 62 µg/L. A thorough discussion of the historical trichloroethene results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical trichloroethene data are presented in Attachment D.

During the South Yard Area Data Gaps Investigation trichloroethene was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Trichloroethene was detected in 14 groundwater samples from the South Yard Area Data Gap Investigation and was detected above its surface water screening level of 0.302 µg/L in 13 of the samples. Trichloroethene was also detected above its air screening level of 62 µg/L in the sample from well PL2-115A at a concentration of 110 µg/L. All but one of the trichloroethene detections were in samples from the A-level of the aquifer. The single B-level trichloroethene detection was in a sample from PL2-602B at a concentration of 0.6 µg/L Trichloroethene data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for trichloroethene in the A, B, and C levels of the aquifer is presented in Attachment E. There are two areas of trichloroethene concentrations above its screening level in the A-level and one in the B-level of the South Yard Area The A-level areas of trichloroethene concentrations above its screening level are associated with SWMU 79 (the Cisterns) and SWMU 2-89-68 (Reclamation yard) and more specifically SWMU 2-91-70 (Deactivated waste oil and coolant storage area). The trichloroethene concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the trichloroethene screening level. A cross sectional view of trichloroethene concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for trichloroethene in groundwater range from non-detect at a reporting limit of 0.2 µg/L to 110 µg/L with the highest detected concentration in a sample from well PL2-115A. PL2-115A is located in SWMU 2-91.70, Deactivated Waste Oil and Coolant Storage Area.

3.3.7 Vinyl Chloride

The scope of the data gaps investigation for vinyl chloride in groundwater was based on historical information and data contained in the Plant 2 database at the time the South Yard Area Data Gaps Investigation Work Plan was written. At that time vinyl chloride was analyzed in 164 South Yard Area groundwater samples and was detected in 108 of those samples. Eighty-four of the 108 historical vinyl chloride detections were greater than the screening level for protection of surface water of 0.731 µg/L. Two of the historical vinyl chloride concentrations were also greater than the screening level for the protection of air of 371 µg/L. A thorough discussion of the historical vinyl chloride results prior to this data gap investigation is provided in the South Yard Area Data Gaps Investigation Work Plan. Historical vinyl chloride data are presented in Attachment D. All historical detections above the screening level may not be depicted on the COC map in Attachment E because for locations with multiple results only the maximum detected concentration is shown.

During the South Yard Area Data Gaps Investigation vinyl chloride was analyzed in groundwater samples collected at all six new monitoring wells, all 27 existing monitoring wells, and all 12 direct-push probes associated with the South Yard Area Data Gap Investigation for a total of 45 results. Vinyl chloride was detected in 25 groundwater samples from the South Yard Area data gap investigation and was detected above its surface water screening level of 0.731 µg/L in 24 of the samples including samples from the three new B-level wells at concentrations of 12 µg/L, 9.8 µg/L, and 3.1 µg/L for PL2-601B, PL2-602B, and PL2-603B, respectively. Vinyl chloride was not detected above its air screening level of 371 µg/L in any of the data gap samples from the South Yard Area. All of the vinyl chloride detections were in samples from the A- and B-levels of the aquifer. Vinyl chloride data from the South Yard Area Data Gap Investigation are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for vinyl chloride in the A, B, and C levels of the aquifer is presented in Attachment E. The area of vinyl chloride

concentrations above its screening level in the A-level and B-level of the aquifer correspond to likely sources in SWMU 79, (Cisterns, particularly Cistern 4) and SWMU 2-89-68 (Reclamation yard) in the South Yard Area. The vinyl chloride concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the vinyl chloride screening level. A cross sectional view of vinyl chloride concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for vinyl chloride in groundwater range from non-detect at a reporting limit of 0.2 µg/L to 31 µg/L with the highest detected concentrations in a sample from the A-level of the aquifer at direct-push probe DP-SY-05. Probe DP-SY-05 is located in SWMU 2-89.68, Reclamation Yard.

3.4 PETROLEUM HYDROCARBONS

Petroleum hydrocarbons were not originally part of the South Yard Area area-specific COC list for groundwater but groundwater samples were collected and analyzed for petroleum hydrocarbons to support soil data gap investigations in the South Yard Area.

Groundwater samples were collected and chemical analysis conducted for gasoline-range and diesel-range petroleum hydrocarbons by methods Northwest Total Petroleum Hydrocarbons – Gasoline Range (NWTPH-G) and Northwest Total Petroleum Hydrocarbons – Diesel Range, Extended (NWTPH-Dx). These analyses were performed on groundwater samples collected from selected sampling locations as noted in Table 2-2 of the South Yard Area Data Gap Investigation Work Plan.

Two petroleum hydrocarbon ranges were detected in samples collected during the South Yard Area data gap investigation: diesel-range petroleum hydrocarbons (DRPH) and motor oil-range petroleum hydrocarbons (MoRPH). Both of these constituents were detected in groundwater samples at concentrations above their screening level of 500 µg/L. Therefore, both DRPH and MoRPH will be added to the area-specific groundwater COC list for the South Yard Area.

Analytical data generated by the South Yard Area data gaps investigation for petroleum hydrocarbons are presented in the following sections.

3.4.1 Diesel-Range Petroleum Hydrocarbons

DRPH was historically detected in the South Yard Area but was not originally an area-specific COC because detected concentrations were all below its screening level. Because DRPH was not a South Yard Area COC there are no data gaps for DRPH identified in Section 2 of the South Yard Area Data Gaps Work Plan. Historical DRPH data are presented in Attachment D.

During the South Yard Area Data Gap Investigation DRPH was analyzed in groundwater samples collected at two of the six new monitoring wells and in five existing monitoring wells associated with the South Yard Area data gap investigation for a total of seven results. DRPH

was detected in groundwater samples from five locations in the South Yard Area and was detected above its screening level of 500 µg/L in two of those locations. DRPH data are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for DRPH in the A level of the aquifer is presented in Attachment E. There are two areas of DRPH concentrations above its screening level in the A-level of the aquifer; one at PL2-112A with a concentration of 8,900 µg/L and the other at PL2-603A with a concentration of 650 µg/L. The locations of DRPH above its screening level correspond to SWMU 2-91.70 (Deactivated waste oil and coolant storage area) and SWMU 2-89.68 (Reclamation yard). The DRPH concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the DRPH screening level. A cross sectional view of DRPH concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for DRPH in groundwater range from non-detect at a reporting limit of 250 µg/L to 8,900 µg/L with the highest detected concentration in a sample taken from well PL2-112A. Well PL2-112A is located immediately downgradient of SWMU 2-91.70, Deactivated Waste Oil and Coolant Storage.

3.4.2 Gasoline-Range Petroleum Hydrocarbons

GRPH was historically detected in the South Yard Area but was not originally an area-specific COC because detected concentrations were all below its screening level. Because GRPH was not a South Yard Area COC there are no data gaps for GRPH identified in Section 2 of the South Yard Area Data Gaps Work Plan. Historical GRPH data are presented in Attachment D.

During the South Yard Area Data Gap Investigation GRPH was analyzed in groundwater samples collected at two of the six new monitoring wells and in five existing monitoring wells associated with the South Yard Area data gap investigation for a total of seven results. GRPH was not detected in groundwater samples from any of the seven locations sampled in the South Yard Area. GRPH data are summarized in Table 3-2.

A South Yard Area map displaying current data gap investigation data for GRPH in the A level of the aquifer is presented in Attachment E. There are no areas of GRPH concentrations above its screening level in the A-level of the aquifer. The GRPH concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the GRPH screening level. A cross sectional view of GRPH concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for GRPH in groundwater are all non-detect at a reporting limit of 250 µg/L.

3.4.3 Motor Oil-Range Petroleum Hydrocarbons

MoRPH was historically detected in the South Yard Area but was not originally an area-specific COC because detected concentrations were all below its screening level. Because MoRPH was not a South Yard Area COC there are no data gaps for MoRPH identified in Section 2 of the South Yard Area Data Gaps Work Plan. Historical MoRPH data are presented in Attachment D.

During the South Yard Area Data Gap Investigation MoRPH was analyzed in groundwater samples collected at two of the six new monitoring wells and in five existing monitoring wells associated with the South Yard Area data gap investigation for a total of seven results. MoRPH was detected in one groundwater sample from well PL2-112A at a concentration of 1,300 µg/L which is above its screening level of 500 µg/L. MoRPH data are summarized in Tables 3-1 and 3-2.

A South Yard Area map displaying current data gap investigation data for MoRPH in the A level of the aquifer is presented in Attachment E. There is one location, PL2-112A, with a MoRPH concentration above its screening level in the A-level of the aquifer. The location of MoRPH above its screening level corresponds to SWMU 2-91.70 (Deactivated waste oil and coolant storage area). The MoRPH concentration map also displays historical data for locations that were not re-sampled as part of the South Yard Area Data Gap Investigation; however, these historical data were not used to delineate the highlighted areas currently above the MoRPH screening level. A cross sectional view of MoRPH concentrations in groundwater along the Boeing Plant 2 border with Jorgensen Forge is also presented in Attachment E.

Data gap investigation analytical results for MoRPH in groundwater range from non-detect at a reporting limit of 250 µg/L to 1,300 µg/L with the highest detected concentration in a sample taken from well PL2-112A. Well PL2-112A is located immediately downgradient of SWMU 2-91.70, Deactivated Waste Oil and Coolant Storage Area.

4.0 Groundwater Hydrogeologic Results

This section presents results for the hydrogeologic investigation portion of the data gap investigation for the South Yard Area.

Figure 4-1 presents results of the South Yard Area hydrogeologic data gap field investigation. This figure shows generalized groundwater elevation contours and the generalized groundwater flow direction in the vicinity of the property border between the Boeing Plant 2 South Yard Area and Jorgensen Forge. Based on the data, it appears that the generalized groundwater flow direction along most of border between the Facility and the Jorgensen Forge property is approximately parallel to the border or slightly toward the Jorgensen Forge property.

Water level elevation data from six of the 25 monitoring wells used in water level investigation are considered to be anomalous and are not used to interpolate groundwater elevation contours. These six locations are noted with as asterisk next to their groundwater elevation on Figure 4-1. Four of the six anomalous locations are inside of or immediately adjacent to the 2-66 sheet pile. Because of their locations the hydraulic response to tidal fluctuations is significantly affected by the impermeable sheet pile structure. The two remaining wells, PL2-JF015 and PL2-JF006, are located outside of the sheet pile structure but data loggers installed in those wells produced data sets that did not exhibit any tidal fluctuations, indicating that the data loggers were malfunctioning or the well screens are plugged and the well is not in hydraulic communication with the aquifer. The data loggers were found to be operating normally and Boeing determined that the wells screens were likely plugged in wells PL2-JF015 and PL2-JF006. As a result, groundwater elevation contours and associated flow directions were not drawn in the area west of PL2-116A because of the lack of reliable data in this area.

Horizontal groundwater flow directions within the 2-66 Area are affected by the presence of the sheet pile structure which acts as an impermeable barrier to horizontal groundwater flow and are likely complex due to the effect of this structure as well as tidal effects. Boeing intends to pursue a joint hydrologic investigation with Jorgensen Forge along the border between the 2-66 Area and Jorgensen Forge to evaluate mean groundwater elevations and flow directions.

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5.0 Soil Analysis Results

In contrast to groundwater, soil data gaps investigation results are evaluated on a RCRA unit-by-unit basis as opposed to an area-wide basis. Data gaps associated with the nature and extent of soil COCs in the South Yard Area were identified in Work Plan Section 2.4. A summary of field investigation activities designed to address the data gaps was presented in Work Plan Section 3. The results of the South Yard Area data gap sampling and analysis are presented by constituent group and COC in the following sections. Constituents detected in soil samples are summarized in Table 5-1. South Yard Area-specific COCs are listed and summarized in Table F-2, which identifies the maximum concentration and number of exceedances for the exposure pathways presented in Work Plan Table 2-1. Table 5-2 includes all data gaps investigation analytical data for the South Yard Area data gap investigation.

The soil concentration maps presented in the Work Plan for selected COCs have been updated to include the South Yard Area data gap investigation results. New soil concentration maps have been created for the remaining COCs not represented in the Work Plan. The maps, provided in Attachment F of this report, present COC concentrations in soil for three intervals (0 to 1 ft. bgs, greater than 1 to 6 ft. bgs and greater than 6 to 12 ft. bgs) within the vadose zone soil column from 0 to 12 ft. bgs. Due to the size and scale of the area, the South Yard Area is presented on two maps (east and west) for each depth interval. Isoconcentration lines based on screening levels are presented on the figures. Tables of all soil COC results for the South Yard Area data updated with the current data gap investigation results are also provided in Attachment F.

5.1 INORGANICS

Soil samples were collected and analyzed for priority pollutant metals, as well as manganese and hexavalent chromium (chromium VI), in accordance with Work Plan Table 2-2. Using both historical data and data from this investigation, all site-wide inorganic COCs were again screened to determine which constituents are COCs for the South Yard Area, as described in Work Plan Section 2.4. The resulting COC list is identical to that presented in Work Plan Section 2.4.1. The following eleven metals are COCs in soil for the South Yard Area:

Arsenic	Cadmium	Chromium (VI)	Copper
Manganese	Mercury	Nickel (soluble salts)	Selenium
Silver	Thallium (soluble salts)	Zinc	

Cyanide, antimony, and lead have not been detected in any South Yard soil samples at concentrations that exceed their respective screening levels and therefore will continue to be excluded from the South Yard COC list but will remain Plant 2 site-wide COCs.

In the following sections, the COC metals data generated by the this investigation are summarized and evaluated with historical data to determine whether data gaps remain with

respect to CMS remedy selection. A number of the data gaps identified for metals in Work Plan Section 2.4 involved determining whether the soil to groundwater pathway is complete. The definition of a complete soil to groundwater pathway is provided in Work Plan Section 2.1.

Following submittal of Work Plan Sections 1 through 3, EPA agreed to the use of the natural background concentrations for metals established for the Puget Sound Basin (Ecology, 1994). Therefore, where natural background concentrations are both available and above the pathway-specific screening level(s), natural background concentrations will become the screening level and will be used to evaluate data gap investigation results.

5.1.1 Arsenic

The scope of the data gaps investigation for arsenic was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, arsenic had been analyzed in 190 South Yard Area soil samples and detected in 63 of those samples. Of those samples where arsenic was detected, seven were reported at concentrations greater than the 7.3 mg/kg screening level. The screening level is based on the natural background concentration of arsenic in soil in the Puget Sound Basin (Ecology, 1994). The concentration of arsenic detected above this screening level ranged from 8 to 12 mg/kg. The maximum concentration (12 mg/kg) was detected in the sample from 4.5 feet bgs below the current Building 2-83.

During the South Yard Area Data Gaps Investigation arsenic was analyzed in an additional 45 samples collected from 15 locations. Arsenic was detected in four of those samples above RLs. Table 5-1 presents a summary of constituents detected in investigation samples including arsenic. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of arsenic analytical results for all historical and investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The arsenic soil concentration maps presented in the work plan (EPI, et. al., 2004) were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (7.3 mg/kg) have been added to the soil concentration maps. A thorough discussion of historical arsenic results prior to this investigation is provided in the work plan (EPI et al, 2004); the following provides a brief summary of the investigation results for arsenic.

Of the four new samples where arsenic was detected, only one, the 5-ft bgs sample from probe DP-SY-08, was reported at a concentration (8 mg/kg) greater than the 7.3 mg/kg screening level. Investigation results for arsenic in soil are within the historical range (8 to 12 mg/kg) for this constituent in the South Yard Area.

In the current investigation data set, a maximum concentration of arsenic (12 mg/kg) was detected in a sample collected from location DP-SY-08 near the western end of Building 2-83 at 5 ft. bgs. The sample with the historical maximum concentration (12 mg/kg) of arsenic detected within the South Yard Area was collected from 4.5 feet bgs below the current 2-83 Building.

These maximum concentration values do not exceed the direct contact exposure pathway screening level (33.3 mg/kg).

5.1.2 Cadmium

The scope of the data gaps investigation for cadmium was based on historical information and the data set contained in the Plant 2 RCRA data based at the time the work plan was written. At that time, cadmium had been analyzed in 212 South Yard Area soil samples and detected in 46 of those samples. Of those samples where cadmium was detected, 13 were reported at concentrations greater than the 1.21 mg/kg screening level protective of surface water. The concentration of cadmium detected above this screening level ranged from 1.6 to 3,700 mg/kg. The maximum concentration (3,700 mg/kg) was detected in the sample from 11 feet bgs in the SWMU 79.B (Cistern 4) area.

During this investigation cadmium was analyzed in an additional 45 soil samples collected from 15 locations. Cadmium was detected above RLs in eight of those samples. Table 5-1 presents a summary of constituents detected in investigation samples including cadmium. Table 5-2 presents a summary of all soil analysis results for this investigation.

A table of cadmium analytical results for all historical and investigation samples presenting sample locations, concentration, and depth are provided in Attachment F. The cadmium soil concentration maps presented in the work plan (EPI et. al, 2004) were revised to include the investigation results. The revised soil concentration maps are provided in Attachment F. Isoconcentration contours representing the screening level (1.21 mg/kg) have been added to the soil concentration maps. A thorough discussion of the cadmium results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for cadmium.

For the eight investigation samples in which cadmium was detected, concentrations ranged from 0.2 mg/kg to 4.3 mg/kg. Only one of the eight detected concentrations was above the screening level protective of surface water (1.21 mg/kg). This single concentration (4.3 mg/kg) detected above the screening level was detected in a sample collected from 1 ft. bgs at DP-SY-06 near the western end of Building 2-83. Cadmium was not detected in deeper soil samples or in the groundwater sample collected from DP-SY-06.

Cadmium was detected in soil from three locations associated with SWMU 79.A (DP-SY-02 through DP-SY-04) and from one location associated with SWMU 79.B (DP-SY-01); however, concentrations detected in these soil samples were below the screening level protective of surface water.

The maximum concentration (4.3 mg/kg) of cadmium in soil associated with this investigation is below both the overall maximum concentration of cadmium in South Yard Area soil (3,700 mg/kg) and the direct contact exposure pathway screening level (667 mg/kg). As identified in Work Plan Section 2.4.1.2, addressing data gaps for cadmium via the surface water pathway consists of evaluating whether groundwater has not been impacted by cadmium in soils at SWMU 79.A (Cisterns 1, 2, 3), SWMU 79.B (Cistern 4), and SWMU 2-91.70 (Deactivated Waste

Oil and Coolant Storage Area). Cadmium was not detected in groundwater from the existing monitoring wells or from the new direct-push sampling locations associated with SWMU 79.A and/or SWMU 79.B. Cadmium was also not detected in groundwater samples from any of the five locations associated with SWMU 2-91.70.

5.1.3 Copper

The scope of the data gaps investigation for copper was based on historical information and the data set contained in the Plant 2 RCRA data based at the time the work plan was written. At that time, copper had been analyzed in 212 South Yard Area soil samples and detected in all of those samples. Of those samples where copper was detected, ten were reported at concentrations greater than the 36.4 mg/kg soil screening level. The screening level is based on the natural background concentration of copper in soil in the Puget Sound Basin (Ecology, 1994). The concentration of copper detected above this screening level ranged from 40 to 830 mg/kg. The maximum concentration (830 mg/kg) was detected in the sample from 11 feet bgs in the SWMU 79.B (Cistern 4) area.

During the data gaps investigation copper was analyzed in 45 soil samples collected from 15 locations and detected in all 45 samples. Table 5-2 presents a summary of all soil analysis results for copper for this investigation.

A table of copper analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The copper soil concentration maps presented in the work plan (EPI et. al, 2004) were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (36.4 mg/kg) have been added to the soil concentration maps. A thorough discussion of the copper results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for copper.

Of the 45 detected concentrations of copper in the current investigation data set, none exceeded the soil screening level (36.4 mg/kg). Copper concentrations in soil ranged from 9 mg/kg to 32.9 mg/kg. The maximum concentration of copper in soil associated with this investigation was below both the overall maximum concentration of copper in South Yard Area soil (830 mg/kg) and the direct contact exposure pathway screening level (49,300 mg/kg).

As identified in Work Plan Section 2.4.1.3, addressing data gaps for copper via the surface water pathway consists of determining whether groundwater has been impacted by copper in soils at SWMU 79.B (Cistern 4), SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area), near AOC 2-86.63 (Wet Paint Booth), and at the west end of Building 2-83.

During this investigation, copper was detected in groundwater samples collected from PL2-152A and PL2-153A in association with SWMU 79.B. The concentration in both samples was 0.7 µg/L. Copper was also detected at 1.3 µg/L in groundwater from PL2-115A, collected in association with SWMU 2-91.70. Although copper was not detected in any of the groundwater samples collected from direct-push probes advanced at the west end of Building 2-83, it was

detected at 0.6 µg/L in a sample collected from PL2-120A to characterize both the west end of Building 2-83 and AOC 2-86.63. As noted in Section 3.1.2, all detected concentrations of copper were below the groundwater screening level protective of surface water (3.1 µg/L).

5.1.4 Hexavalent Chromium

The scope of the data gaps investigation for hexavalent chromium (chromium VI) was based on historical information and the data set contained in the Plant 2 RCRA data based at the time the work plan was written. At that time, chromium VI had been analyzed in 22 South Yard Area soil samples and detected in five of those samples. Of those samples where chromium VI was detected, only one was reported at a concentration greater than the 19.2 mg/kg soil screening level protective of surface water. The only concentration of chromium VI detected above the screening level was 1,300 mg/kg, 11 feet bgs in the SWMU 79.B (Cistern 4) area.

During this investigation chromium VI was analyzed in an additional 15 soil samples collected from five locations. Chromium VI was not detected in any of these samples. Table 5-2 presents a summary of all soil analysis results for this investigation.

A table of chromium VI analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (19.2 mg/kg) are provided in Attachment F. A thorough discussion of historical chromium VI results prior to the data gaps investigation is provided in the work plan (EPI et. al, 2004); the following provides a brief summary of the data gap investigation results for chromium VI.

As identified in Work Plan Section 2.4.1.4, addressing data gaps for chromium VI via the surface water pathway consists of determining whether groundwater has been impacted by chromium VI in soils at SWMU 79.B (Cistern 4). During this investigation, chromium VI was detected at 12 µg/L in the groundwater sample from PL2-154A, one of four locations sampled to evaluate the soil to groundwater pathway at SWMU 79.B. Chromium VI was not detected in groundwater from three other locations adjacent to and downgradient of this unit (DP-SY-1, PL2-152A, and PL2-153A). As noted in Section 3.1, chromium VI is not a groundwater COC and all concentrations of chromium VI detected in data gap investigation samples are below the groundwater screening level.

5.1.5 Mercury

The scope of the data gaps investigation for mercury was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, mercury had been analyzed in 195 South Yard Area soil samples and detected in 24 of those samples. Of those samples where mercury was detected, 18 were reported at concentrations greater than the 0.07 mg/kg soil screening level. The screening level is based on the natural background concentration of mercury in soil in the Puget Sound Basin (Ecology, 1994). The concentration of mercury detected above this screening level ranged from 0.07 to 1.72 mg/kg. The maximum concentration (1.72 mg/kg) was detected in the sample from 0.5 feet bgs in the SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage) area.

During this investigation mercury was analyzed in an additional 45 soil samples collected from 15 locations. Mercury was detected at or above reporting limits (RLs) in nine of those samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including mercury. Table 5-2 presents a summary of all soil analysis results for this investigation.

A table of mercury analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The mercury soil concentration maps presented in the work plan (EPI et. al, 2004) were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (0.07 mg/kg) have been added to the soil concentration maps. A thorough discussion of historical mercury results prior to this investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for mercury.

Among the nine data gap investigation samples in which mercury was detected, concentrations ranged from 0.04 mg/kg to 0.1 mg/kg. Three of the nine detected concentrations exceeded the screening level (0.07 mg/kg). Mercury was detected in two samples above the screening level collected at DP-SY-08. Among the data gap investigation results, the maximum concentration of mercury in soil (0.1 mg/kg) was detected in a sample collected from 5 ft bgs at DP-SY-08 near the western end of Building 2-83. However, mercury was not detected in either a subsequent soil sample from 10 ft bgs or in groundwater sampled from DP-SY-08. Mercury was also detected (0.09 mg/kg) in one shallow sample (1 foot bgs) above the screening level at DP-SY-04 in the southeast corner of the South Yard. For two of the non-detect samples, the RL was reported at 0.07 mg/kg screening level. .

The maximum concentration of mercury in soil associated with the data gaps investigation is below both the overall maximum concentration of mercury in South Yard Area soil (1.72 mg/kg) and the direct contact exposure pathway screening level (41.9 mg/kg). As identified in Work Plan Section 2.4.1.6, addressing data gaps for mercury via the surface water pathway consists of determining whether groundwater has been impacted by mercury in soils at SWMU 79.B (Cistern 4), SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area), near AOC 2-86.63 (Wet Paint Booth), and at the west end of Building 2-83.

During the data gaps investigation, groundwater was sampled from four locations (PL2-152A through PL2-154A, and DP-SY-01) to evaluate the soil to groundwater pathway for mercury at SWMU 79.B (Cistern 4). Mercury was detected in groundwater from PL2-154A (0.0604 µg/L), above the groundwater screening level protective of surface water (0.025 µg/L). However, mercury was not detected in any of the other groundwater samples collected in association with this unit, or in soil samples collected from DP-SY-01 at 1, 5, and 10 ft bgs.

Mercury was not detected in groundwater samples from any of the five locations associated with SWMU 2-91.70. In addition, it was not detected in groundwater sampled from direct-push probes advanced at the west end of Building 2-83, or in a groundwater sample collected from PL2-120A to characterize both the west end of Building 2-83 and AOC 2-86.63. Although mercury was detected in soil sampled from 1 ft and 5 ft bgs at DP-SY-08, it was not detected in deeper soil (10 ft bgs) at this location.

5.1.6 Nickel

The scope of the data gaps investigation for nickel was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, nickel had been analyzed in 183 South Yard Area soil samples and detected in all of those samples. The screening level is based on the natural background concentration of nickel in soil in the Puget Sound Basin (Ecology, 1994). Of those samples where nickel was detected, only one was reported at a concentration greater than the 47.8 mg/kg soil screening level. The maximum concentration (610 mg/kg) was detected in the sample from 11 feet bgs in the SWMU 79.B (Cistern 4) area.

During this investigation nickel was analyzed in an additional 45 soil samples collected from 15 locations. Nickel was detected above RLs in all of the data gap samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including nickel. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of nickel analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (47.8 mg/kg) are provided in Attachment F. A thorough discussion of historical nickel results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for nickel.

Nickel concentrations in soil ranged from 6 to 30 mg/kg; none of the 45 detected concentrations exceeded the soil screening level (47.8 mg/kg). The maximum concentration of nickel in soil associated with this investigation, (30 mg/kg), is below both the overall maximum concentration of nickel in South Yard Area soil (610 mg/kg) and the direct contact exposure pathway screening level (26,700 mg/kg).

As identified in Work Plan Section 2.4.1.7, addressing data gaps for nickel via the surface water pathway consists of determining whether groundwater has been impacted by nickel in soils at SWMU 79.B (Cistern 4) and at SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area). During the data gaps investigation, nickel was detected in groundwater from all locations sampled in association with these units. Detected concentrations were below the groundwater screening level (8.2 µg/L), ranging from 0.6 µg/L to 3.9 µg/L.

5.1.7 Selenium

The scope of the data gaps investigation for selenium was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, selenium had been analyzed in 189 South Yard Area soil samples and detected in 18 of those samples. Of those samples where selenium was detected, five were reported at a concentration equal to or greater than the 7.38 mg/kg soil screening level protective of surface water. The concentration of selenium detected above this soil screening level ranged from 8 to 9 mg/kg. The maximum concentration (9 mg/kg) was detected in the sample from 11 feet bgs in the west end of SWMU 2-89.68 Reclamation Yard.

During this investigation selenium was analyzed in an additional 45 soil samples collected from 15 locations. Selenium was not detected above RLs in any of the South Yard data gap soil samples. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of selenium analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (7.38 mg/kg) are provided in Attachment F. A thorough discussion of historical selenium results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation pertaining to groundwater results for selenium.

As identified in Work Plan Section 2.4.1.8, addressing data gaps for selenium via the surface water pathway consists of determining whether groundwater has been impacted by selenium in soils at AOC 2-80.58 (Deactivated Sump), SWMU 2-80.56 (Sink Sump), 2-89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area). Selenium was not detected above RLs in any of the groundwater samples collected as part of the South Yard Data Gaps Investigation.

5.1.8 Silver

The scope of the data gaps investigation for silver was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, silver had been analyzed in 183 South Yard Area soil samples and detected in 13 of those samples. Of those samples where silver was detected, nine were reported at a concentration equal to or greater than the 0.323 mg/kg soil screening level protective of surface water. The concentration of silver detected above this soil screening level ranged from 0.4 to 22 mg/kg. The maximum concentration (22 mg/kg) was detected in the sample from 11 feet bgs in the SWMU 79.B (Cistern 4) area.

During this investigation silver was analyzed in an additional 45 soil samples collected from 15 locations. Silver was detected above RLs in two of those samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including silver. Table 5-2 presents a summary of analytical soil results for this investigation.

A table of silver analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (0.323 mg/kg) are provided in Attachment F. A thorough discussion of historical silver results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for silver.

Silver was detected (7.1 mg/kg and 2.1 mg/kg) in two new samples at concentrations that exceed the soil screening level protective of surface water (0.323 mg/kg). The soil samples were collected 1 foot bgs at DP-SY-06 and DP-SY-08 west of Building 2-83. Although these concentrations exceed the screening level, silver was not detected in subsequent soil samples from 5 and 10 ft bgs or in groundwater from either location. The maximum concentration of

silver in soil samples associated with the data gaps investigation is below both the overall maximum concentration of silver in South Yard Area soil (22 mg/kg) and the direct contact exposure pathway screening level (6,670 mg/kg). For the undetected samples, silver was reported at a RL of 0.4 mg/kg which is slightly above the SL of 0.323 mg/kg.

As identified in Work Plan Section 2.4.1.9, addressing data gaps for silver via the surface water pathway consists of determining whether groundwater has been impacted by silver in soils at SWMU 79.B (Cistern 4), AOC 2-80.58 (Deactivated Sump), SWMU 2-89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area). Silver was not detected above RLs in any of the groundwater samples collected as part of this investigation.

5.1.9 Thallium

The scope of the data gaps investigation for thallium was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, thallium had been analyzed in 189 South Yard Area soil samples and detected in 24 of those samples. Of those samples where thallium was detected, 16 were reported at concentrations greater than the 0.669 mg/kg soil screening level protective of surface water. The concentration of thallium detected above this soil screening level ranged from 6 to 56 mg/kg. The maximum concentration (56 mg/kg) was detected in the sample from 4 feet bgs in the SWMU 2-89.68.B (Reclamation Yard) area.

During this investigation thallium was analyzed in an additional 45 soil samples collected from 15 locations. Thallium was not detected above RLs in any of the data gap samples. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of thallium analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The thallium soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (0.669 mg/kg) were not added to the soil concentration maps due to issues with RLs for data gap investigation and historical data. A thorough discussion of historical thallium results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for thallium.

Thallium was not detected in any of the new samples at a RL ranging from 5 mg/kg to 7 mg/kg, which is above the SL protective of surface water of 0.669 mg/kg. However, thallium was not detected in any of the associated groundwater samples above the RLs (0.2 µg/L), as summarized below.

As identified in Work Plan Section 2.4.1.10, addressing data gaps for thallium via the surface water pathway consists of determining whether groundwater has been impacted by thallium in soils at AOC 2-80.58 (Deactivated Sump), SWMU 2-89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area). Thallium was not detected in any of the groundwater samples collected as part of the South Yard Data Gaps Investigation. The

initial groundwater sample analyses for thallium were reported at an RL of 50 µg/L to 100 µg/L which is above the SL of 0.47 µg/L. This is due to the fact that the laboratory reported results by a less sensitive analytical method (EPA 6010B). Upon re-evaluation, the laboratory discovered that results by a more sensitive method (EPA 200.8) were available and assessment of these data indicated thallium was not detected in any of the associated groundwater samples at a RL of 0.2 µg/L, which is well below the groundwater screening level protective of surface water at a concentration of 0.47 µg/L.

5.1.10 Zinc

The scope of the data gaps investigation for zinc was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, zinc had been analyzed in 207 South Yard Area soil samples and detected in 207 of those samples. Of those samples where zinc was detected, 14 were reported at concentrations greater than the 101 mg/kg soil screening level protective of surface water. The concentration of zinc detected above this soil screening level ranged from 104 to 26,000 mg/kg. The maximum concentration (26,000 mg/kg) was detected in the sample from 11 feet bgs in the SWMU 79.B (Cistern 4) area.

During this investigation zinc was analyzed in an additional 45 soil samples collected from 15 locations. Zinc was detected above RLs in all of those samples. Table 5-1 presents a summary of constituents detected in South Yard Area Data Gap samples including zinc. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of zinc analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The zinc soil concentration maps presented in work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (101 mg/kg) have been added to the soil concentration maps. A thorough discussion of historical zinc results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for zinc.

In the data gap investigation samples, zinc concentrations in soil were all below the soil screening level protective of surface water (101 mg/kg), ranging from 17 to 83.3 mg/kg. In addition, the maximum concentration of zinc in soil associated with the data gaps investigation is below both the overall maximum concentration of zinc in South Yard Area soil (26,000 mg/kg) and the direct contact exposure pathway screening level (400,000 mg/kg).

As identified in Work Plan Section 2.4.1.11, addressing data gaps for zinc via the surface water pathway consists of determining whether groundwater has been impacted by zinc in soils at SWMU 79.A (Cisterns 1, 2, 3), SWMU 79.B (Cistern 4), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area).

During the data gaps investigation, zinc was detected in groundwater samples from three of the six locations associated with SWMU 79.A. Zinc was detected at 20 µg/L, 24 µg/L, and 23 µg/L

in DP-SY-02, DP-SY-04, and DP-SY-05, respectively. Zinc was also detected in groundwater from two of the four sampling locations associated with SWMU 79.B, DP-SY-1 and PL2-152A, at 11 µg/L and 16 µg/L, respectively. Finally, zinc was detected in groundwater from one of the five sample locations associated with SWMU 2-91.70, PL2-117A, at 18 µg/L. All zinc concentrations detected in groundwater samples associated with these units were below the groundwater screening level protective of surface water (81 µg/L).

5.2 SEMIVOLATILE ORGANIC COMPOUNDS AND POLYCHLORINATED BIPHENYLS

In association with the South Yard Data Gaps Investigation, soil samples were analyzed for SVOCs and PCBs in accordance with Work Plan Table 2-2. Using both historical data and data gaps investigation results, all site-wide SVOC and PCB COCs were again screened to determine which site-wide constituents are COCs for the South Yard Area, as described in Work Plan Section 2.4. The resulting COC list is identical to that presented in Work Plan Section 2.4.2, and consists of total PCBs and three Aroclors (1016/1242, 1254 and 1260), as well as eight SVOCs, seven of which are carcinogenic polycyclic aromatic hydrocarbons (cPAHs). The following SVOCs and PCBs are COCs in soil for the South Yard Area:

Total PCBs	Aroclor 1016/1242	Aroclor 1254
Aroclor 1260	Benzo(a)anthracene	Benzo(a)pyrene
Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene
Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	bis(2-Ethylhexyl)phthalate

In the following sections, the COC SVOC and PCB data generated by the data gaps investigation is summarized. A number of the data gaps identified for SVOCs and PCBs in Work Plan Section 2.4 involved determining whether the soil had impacted the groundwater.

5.2.1 Carcinogenic Polycyclic Aromatic Hydrocarbons

The scope of the data gaps investigation for cPAHs were based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, cPAHs had been analyzed in 88 South Yard Area soil samples and, with the exception of benzo(a)anthracene and chrysene, were only detected at concentrations greater than the soil screening level protective of surface water in one sample. Benzo(a)anthracene and chrysene were detected at concentrations greater than their respective soil screening levels in two and six samples, respectively. The concentrations of cPAHs detected within the South Yard that exceeded the soil screening levels protective of surface water ranged from 1.4 to 12.3 times their respective screening levels. The maximum concentrations of benzo(a)anthracene (72 µg/kg), benzo(a)pyrene (1,400 µg/kg), benzo(b)fluoranthene (840 µg/kg), benzo(k)fluoranthene (840 µg/kg), dibenz(a,h)anthracene (1,900 µg/kg) and indeno(1,2,3-cd)pyrene (1,900 µg/kg) were detected in a sample collected from 4 feet bgs in the west end of SWMU 2-89.68 Reclamation Yard. The maximum

concentration of chrysene was detected in a sample collected from 1 foot bgs in the central portion of SWMU 2-89.68 Reclamation Yard.

During this investigation cPAHs were analyzed in an additional 33 soil samples collected from 11 locations. cPAHs were detected in 13 of those samples. Of those samples where cPAHs were detected, two were reported at concentrations greater than their respective soil screening levels protective of surface water. Table 5-1 presents a summary of constituents detected in data gap investigation samples including cPAHs. Table 5-2 presents a summary of all analytical soil results for this investigation.

Tables of analytical results for cPAHs for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The cPAHs soil concentration maps presented in the work plan for benzo(a)anthracene and chrysene have been revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document with new maps for Total PCBs, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and bis(2-Ethylhexyl)phthalate. Isoconcentration contours representing the respective screening levels are presented on the soil concentration maps. A thorough discussion of historical cPAH results prior to the data gaps investigation are provided in the work plan; the following provides a brief summary of the data gap investigation results for cPAHs.

cPAHs were detected above the soil screening levels protective of surface water at two sample locations in the central portion and west end of the SWMU 2-89.68 Reclamation Yard at, DP-SY-02 and SY-PL2-603A, respectively. Benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and chrysene were detected above their respective screening levels in a soil sample from 1 ft bgs at DP-SY-02. However, cPAHs were not detected in soil from 5 or 10 ft bgs or in groundwater from this same location. Benzo(a)anthracene and chrysene were detected above their screening levels in a soil sample from 5 ft bgs at PL2-603A. Neither constituent was detected in soil from 10 ft bgs or in groundwater from the same location. All detected cPAH concentrations were below their respective direct contact exposure pathway screening levels.

As identified in Work Plan Section 2.4.2.1, addressing data gaps for cPAHs via the surface water pathway consists of evaluating whether groundwater has not been impacted by cPAHs in soils at SWMU 79.A (Cisterns 1, 2, 3), SWMU 79.B (Cistern 4), SWMU 89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area). cPAHs were not detected in any groundwater samples above RLs collected as part of this investigation.

5.2.2 bis(2-Ethylhexyl)phthalate

The scope of the data gaps investigation for bis(2-Ethylhexyl)phthalate (BEHP) was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004), was written. At that time, BEHP had been analyzed in 103 South Yard Area soil samples and detected in 33 of those samples. Of those samples where BEPH was detected, seven were reported at concentrations greater than the 1,570 µg/kg soil screening

level protective of surface water. The concentration of BEHP detected above this soil screening level ranged from 1,600 to 330,000 µg/kg. The maximum concentration (330,000 mg/kg) was detected in the sample from 4 feet bgs near the SWMU 79.C (Cistern 5) area.

During this investigation BEHP was analyzed in an additional 33 soil samples collected from 11 locations. BEHP was detected above RLs in one of those samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including BEHP. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of BEHP analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The BEHP soil concentration maps presented in work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (1,570 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical BEHP results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for BEHP.

BEHP was detected in soil from 1 ft bgs at DP-SY-06 at 100 µg/kg, which is below the soil screening level protective of surface water (1,570 µg/kg). BEHP was not detected in either the deeper soil samples (5 and 10 ft bgs) or in the groundwater sample collected from this location. In addition, the maximum concentration associated with this investigation is below both the overall maximum concentration of BEHP in South Yard Area soil (330,000 µg/kg) and the direct contact exposure pathway screening level (1,790,000 µg/kg).

As identified in Work Plan Section 2.4.2.2, addressing data gaps for BEHP via the surface water pathway consists of evaluating whether groundwater has been impacted by BEHP in soils at SWMU 79.A (Cisterns 1, 2, 3), SWMU 89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area). BEHP was not detected above RLs in any groundwater samples collected as part of this investigation.

5.2.3 Polychlorinated Biphenyls

The scope of the data gaps investigation for polychlorinated biphenyls (PCBs) was based on historical information and the data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. PCBs are reported as the sum of aroclors detected. At that time, PCBs, reported as aroclors, had been analyzed in 206 South Yard Area soil samples and detected in 18 of those samples. Of those samples where PCBs were detected, 16 were reported at concentrations greater than the 33 µg/kg soil screening level. The soil screening level is set equal to the laboratory's RL for aroclors. The concentration of PCBs detected above this soil screening level ranged from 45 to 211,900 µg/kg. The maximum concentration (211,900 µg /kg) was detected in the sample from 0.5 feet bgs in the SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage) area.

During this investigation PCBs, were analyzed in an additional 45 soil samples collected from 15 locations. PCBs were detected in eight of those samples. Table 5-1 presents a summary of

constituents detected in data gap investigation samples including PCBs. Table 5-2 presents a summary of all analytical soil results for this investigation.

Tables of the individual aroclor analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The PCBs soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised total PCB soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (33 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical PCBs results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for PCBs.

Seven aroclors were analyzed for and two were detected. Aroclor 1254 was detected in eight samples, and Aroclor 1260 was detected in seven samples. The total PCB concentration for a single sample is the sum of the individual Aroclor results reported for that sample.

Among the eight samples in which PCBs were detected, concentrations ranged from 82 µg/kg to 540 µg/kg, and were all above the soil screening level protective of surface water (33 µg/kg). The detection of PCBs in data gap soil samples was primarily limited to shallow soils (1 foot bgs) in the areas adjacent to the 2-88 Building and Building 2-83. PCBs were detected in 1 foot samples from sample locations DP-SY-01 through DP-SY-04 at concentrations that ranged between 130 µg/kg and 540 µg/kg. PCBs were detected (125 µg/kg and 82J µg/kg) in samples collected from 5 feet bgs and 10 feet bgs at DP-SY-04 and DP-SY-03, respectively. PCBs were detected (130 µg/kg and 540 µg/kg) in samples collected from 1 foot bgs at sample locations DP-SY-06 and DP-SY-08, respectively. PCBs were detected not detected above RLs in deeper soils at these locations.

The maximum concentration of total PCBs in soil associated with this investigation (540 µg/kg) is below the overall maximum concentration of total PCBs in South Yard Area soil (211,900 µg/kg). Individual Aroclor concentrations were all below their respective direct contact exposure pathway screening levels.

As identified in Work Plan Section 2.4.2.3, addressing data gaps for PCBs via the surface water pathway consists of evaluating whether groundwater has been impacted by PCBs in soils at SWMU 79.A (Cisterns 1, 2, 3), SWMU 79.B (Cistern 4), and SWMU 2-89.68 (Reclamation Yard). PCBs were not detected in any groundwater samples collected as part of this investigation.

5.3 VOLATILE ORGANIC COMPOUNDS

Soil samples were collected and analyzed for volatile organic compounds (VOCs) in accordance with the work plan (EPI, et. al., 2004). Using both historical current data gap investigation results, all site-wide VOC COCs were again screened to determine which site-wide constituents are COCs for the South Yard Area, as described in Work Plan Section 2.4. The resulting COC list is identical to that presented in Work Plan Section 2.4.3.

The following ten VOCs are COCs in soil for the South Yard Area:

Benzene	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethylbenzene
Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane
Trichloroethene	Vinyl Chloride		

As indicated in Work Plan Section 2.4.3, development of soil screening levels for exposure via the air pathway has not yet been completed, and adjustments to the Johnson and Ettinger model are ongoing. Data gaps associated with the air pathway will be evaluated as part of the work planned and described in the Uplands CMS Volume II: Attachment C, Johnson and Ettinger Work Plan.

In the following sections, the COC VOC data generated by this investigation is summarized. A number of the data gaps identified for VOCs in Work Plan Section 2.4 involved evaluating whether the soil to groundwater pathway is complete. The definition of a complete soil to groundwater pathway provided in Work Plan Section 2.1 is used to evaluate the data gaps investigation results.

5.3.1 Benzene

The scope of the data gaps investigation for benzene was based on historical information and the data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, benzene had been analyzed in 243 South Yard Area soil samples and detected in 22 of those samples. Of those samples where benzene was detected, five were reported at concentrations greater than the 25.3 µg/kg soil screening level protective of surface water. The concentration of benzene detected above this soil screening level ranged from 33 to 49,000 µg/kg. The maximum concentration (49,000 mg/kg) was detected in the sample from 8 feet bgs in the OA-3 (Former UST PL-23) area.

During this investigation benzene was analyzed in an additional 45 soil samples collected from 15 locations. Benzene was detected above RLs in one of those samples. Table 5-1 presents a summary of constituents detected in the data gap investigation samples including benzene. Table 5-2 presents a summary of all soil analysis results for this investigation.

A table of benzene analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The benzene soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (25.3 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical benzene results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for benzene.

Of the 45 new samples, benzene was detected in only one soil sample from 10 ft bgs at the location of the new monitoring well PL2-602A at 12 µg/kg; which is below the soil screening level protective of surface water (25.3 µg/kg). In addition, this concentration is below both the overall maximum concentration of benzene in South Yard Area soil (49,000 µg/kg) and the direct contact exposure pathway screening level (1,360,000 µg/kg). Benzene was detected in a groundwater sample collected from this location at 2 µg/L, which is below the groundwater screening level protective of surface water (4.48 µg/L).

As identified in Work Plan Section 2.4.3.1, addressing data gaps for benzene via the surface water pathway consists of evaluating whether groundwater has been impacted by benzene in soils at AOC 2-80.58 (Deactivated Sump), SWMU 78.5 (Oil/Water Separator), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area).

Benzene was not detected in groundwater samples collected in association with AOC 2-80.58.

Benzene was detected at 0.3 µg/L in groundwater from DP-SY-11, one of two locations sampled to evaluate the soil to groundwater pathway at SWMU 78.5. This concentration is below the groundwater screening level protective of surface water.

Benzene was detected in two of the five samples collected to evaluate the soil to groundwater pathway at SWMU 2-91.70. Benzene concentrations were 1.1 µg/L and 5.3 µg/L in groundwater samples from monitoring wells PL2-112A and PL2-113A, respectively. The latter concentration exceeds the groundwater screening level protective of surface water.

5.3.2 1,1-Dichloroethene

The scope of the data gaps investigation for 1,1-dichloroethene was based on historical information and the data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, 1,1-dichloroethene had been analyzed in 240 South Yard Area soil samples and detected in nine of those samples. Of those samples where 1,1-dichloroethene was detected, eight were reported at concentrations greater than the 2.73 µg/kg soil screening level protective of surface water. The concentration of 1,1-dichloroethene detected above this soil screening level ranged from 5.6 to 230 µg/kg. The maximum concentration (230 µg/kg) was detected in the sample from 5.5 feet bgs in the SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage) area.

During this investigation 1,1-dichloroethene was analyzed in an additional 45 soil samples collected from 15 locations. 1,1-Dichloroethene was not detected in any of the data gap samples. Table 5-2 presents a summary of all soil analysis results for is investigation and includes 1,1-dichloroethene.

A table of 1,1-dichloroethene analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The 1,1-dichloroethene soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (2.73 µg/kg) have been added to the soil concentration maps. A thorough discussion of

historical 1,1-dichloroethene results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for 1,1-dichloroethene.

As identified in Work Plan Section 2.4.3.2, addressing data gaps for 1,1-dichloroethene via the surface water pathway consists of evaluating whether groundwater has been impacted by 1,1-dichloroethene in soils at SWMU 2-87.65 (Machine Pit), SWMU 2-89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area).

1,1-Dichloroethene was not detected in any of the four groundwater samples collected to evaluate the soil to groundwater pathway at SWMU 2-87.65.

1,1-Dichloroethene was detected at 0.2 µg/L in two of the four groundwater samples associated with SWMU 2-89.68. However, this concentration is below the groundwater screening level protective of surface water for 1,1-dichloroethene (0.382 µg/L.

1,1-Dichloroethene was detected in three of the five samples associated with SWMU 2-91.70. Concentrations in the groundwater samples from PL2-112A and PL2-113A were 1.9 and 1.3 µg/L, respectively, which are above the groundwater screening level protective of surface water.

5.3.3 cis-1,2-Dichloroethene

The scope of the data gaps investigation for cis-1,2-dichloroethene was based on historical information and the data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, cis-1,2-dichloroethene had been analyzed in 200 South Yard Area soil samples and detected in 43 of those samples. Of those samples where cis-1,2-dichloroethene was detected, none were reported at concentrations greater than the 7,725 µg/kg soil screening level protective of surface water. The maximum concentration of cis-1,2-dichloroethene detected was at two locations in the South Yard at 1,500 µg/kg. cis-1,2-Dichloroethene was detected at this concentration in a sample collected from 8 feet bgs in the central portion of SWMU 2-89.68 Reclamation Yard and in a sample collected from 7 feet bgs just to the north of SWMU 2-91.71 Deactivated Waste Oil and Coolant Storage Area.

During this investigation cis-1,2-dichloroethene was analyzed in an additional 45 soil samples collected from 15 locations. cis-1,2-Dichloroethene was detected above RLs in six of those samples. Table 5-1 presents a summary of constituents detected in the data gap investigation samples including cis-1,2-dichlorothene. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of cis-1,2-dichloroethene analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The cis-1,2-dichloroethene soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (7,725 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical cis-1,2-dichloroethene results prior to the data gaps investigation is provided in the

work plan; the following provides a brief summary of the data gap investigation results for cis-1,2-dichloroethene.

Of the six new samples in which cis-1,2-dichloroethene was detected, concentrations ranged from 2.0 µg/kg to 48 µg/kg, below the screening level protective of surface water (7,725 µg/kg). In addition, the maximum concentration is below both the overall maximum concentration of cis-1,2-dichloroethene in South Yard Area soil (1,500 µg/kg) and the direct contact exposure pathway screening level (7,990,000 µg/kg).

As identified in Section Work Plan 2.4.3.3, addressing data gaps for cis-1,2-dichloroethene in South Yard Area soil consists of evaluation of the air pathway. The maximum soil concentration of cis-1,2-dichloroethene associated with this investigation is below the proposed air pathway screening level (794 µg/kg). However, data gaps for cis-1,2-dichloroethene associated with the air pathway were identified in Work Plan Section 2.4.3.3, and will be evaluated as part of the work planned and described in the Uplands CMS Volume II: Attachment C, Johnson and Ettinger Work Plan.

5.3.4 Ethylbenzene

The scope of the data gaps investigation for ethylbenzene was based on historical information and the data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, ethylbenzene had been analyzed in 243 South Yard Area soil samples and detected in 27 of those samples. Of those samples where ethylbenzene was detected, one was reported at a concentration greater than the 18,100 µg/kg soil screening level protective of surface water. The concentration of ethylbenzene detected above this soil screening level was 260,000 µg/kg. The maximum concentration (260,000 mg/kg) was detected in the sample from 8 feet bgs in the OA-3 (Former UST PL-23) area.

During this investigation ethylbenzene was analyzed in an additional 45 soil samples collected from 15 locations. Ethylbenzene was not detected in any of those samples. Table 5-2 presents a summary of all analytical soil results for this investigation and includes ethylbenzene.

A table of ethylbenzene analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (18,100 µg/kg) are provided in Attachment F. A thorough discussion of historical ethylbenzene results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for ethylbenzene.

As identified in Work Plan Section 2.4.3.4, addressing data gaps for ethylbenzene via the surface water pathway consists of evaluating whether groundwater has been impacted by ethylbenzene in soils at AOC 2-80.58 (Deactivated Sump) and SWMU 78.5 (Oil/Water Separator). Ethylbenzene was not detected in any of the groundwater samples collected in association with either of these units.

5.3.5 Methylene Chloride

The scope of the data gaps investigation for methylene chloride was based on historical information and the data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, methylene chloride had been analyzed in 239 South Yard Area soil samples and detected in 87 of those samples. Of those samples where methylene chloride was detected, two were reported at concentrations greater than the 828 µg/kg soil screening level protective of surface water. The concentration of methylene chloride detected above this soil screening level ranged from 1,100 to 1,900 µg/kg. The maximum concentration (1,900 µg/kg) was detected in the sample from 1 foot bgs in the SWMU 2-89.68 (Reclamation Yard) area.

During this investigation methylene chloride was analyzed in an additional 45 soil samples collected from 15 locations. Methylene chloride was detected in one of those samples. Table 5-1 presents a summary of constituents detected in the data gap investigation samples including methylene chloride. Table 5-2 presents a summary of all analytical soil results for this investigation and includes methylene chloride.

A table of methylene chloride analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (828 µg/kg) are provided in Attachment F. A thorough discussion of historical methylene chloride results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for methylene chloride.

Methylene chloride was detected in one soil sample at DP-SY-05 from 1 ft bgs at 5.7 µg/kg, which is below the soil screening level protective of surface water (828 µg/kg). Methylene chloride was not detected in soil samples from 5 and 10 ft bgs at DP-SY-05 in the southeast corner of the South Yard. Methylene chloride was not detected in the groundwater sample collected from this location. In addition, the detected concentration is below both the overall maximum concentration of methylene chloride in South Yard Area soil (1,900 µg/kg) and the direct contact exposure pathway screening level (9,940,000 µg/kg).

As identified in Work Plan Section 2.4.3.5, addressing data gaps for methylene chloride via the surface water pathway consists of evaluating whether groundwater has been impacted by methylene chloride in soils at SWMU 2-89.68 (Reclamation Yard). Methylene chloride was not detected in any of the groundwater samples collected in association with this unit.

5.3.6 Tetrachloroethene

The scope of the data gaps investigation for tetrachloroethene was based on historical information and the data set contained in the Plant 2 RCRA data base at the time the work plan was written. At that time, tetrachloroethene had been analyzed in 240 South Yard Area soil samples and detected in 65 of those samples. Of those samples where tetrachloroethene was detected, 25 were reported at concentrations greater than the 8.72 µg/kg soil screening level protective of surface water. The concentration of tetrachloroethene detected above this soil screening level ranged from 9.1 to 33,000 µg/kg. The maximum concentration (33,000 µg/kg)

was detected in the sample from 0.5 feet bgs in the SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage) area.

During this investigation tetrachloroethene was analyzed in an additional 45 soil samples collected from 15 locations. Tetrachloroethene was detected above RLs in 11 of those samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including tetrachloroethene. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of tetrachloroethene analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The tetrachloroethene soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (8.72 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical tetrachloroethene results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for tetrachloroethene.

Of the 11 new soil samples in which tetrachloroethene was detected, concentrations ranged from 1.7 µg/kg to 110 µg/kg. Three of the 11 detected concentrations exceeded the screening level protective of surface water (8.72 µg/kg). All three detections were associated with samples collected from 1 to 10 feet bgs at DP-SY-05 in the southeast corner of the South Yard. The maximum concentration of tetrachloroethene in soil associated with the data gaps investigation is below both the overall maximum concentration of tetrachloroethene in South Yard Area soil (3,300 µg/kg) and the direct contact exposure pathway screening level (1,070,000 µg/kg). As identified in Work Plan Section 2.4.3.6, addressing data gaps for tetrachloroethene via the surface water pathway consists of verifying that groundwater has not been impacted by tetrachloroethene in soils at SWMU 2-89.68 (Reclamation Yard) and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area).

During the data gaps investigation, groundwater was sampled from four locations (PL2-115A, PL2-117A, PL2-602A, and PL2-603A) to evaluate the soil to groundwater pathway for tetrachloroethene at SWMU 2-89.68 (Reclamation Yard). Tetrachloroethene was detected in groundwater from PL2-115A at 0.2 µg/L, which is below the groundwater screening level protective of surface water (0.82 µg/L). Tetrachloroethene was not detected in any of the other groundwater samples collected in association with this unit.

Tetrachloroethene was detected in groundwater from three of the five sampling locations adjacent to or downgradient of SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area). Tetrachloroethene was detected above the groundwater screening level protective of surface water in groundwater from PL2-112A and PL2-113A, at 3.8 µg/L and 1.2 µg/L, respectively.

5.3.7 Toluene

The scope of the data gaps investigation for toluene was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, toluene had been analyzed in 243 South Yard Area soil samples and detected in 92 of those samples. Of those samples where toluene was detected, two were reported at concentrations greater than the 109,000 µg/kg soil screening level protective of surface water. The concentration of toluene detected above this soil screening level ranged from 110,000 to 650,000 µg/kg. The maximum concentration (650,000 µg/kg) was detected in the sample from 8 feet bgs in the OA-3 (Former UST PL-23) area.

During this investigation toluene was analyzed in an additional 45 soil samples collected from 15 locations. Toluene was detected in two of the data gap samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including toluene. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of toluene analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The toluene soil concentration maps presented in work plan were revised to include the data gap investigation results. Soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (109,000 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical toluene results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for toluene.

The two new soil samples toluene was detected in were from 10 ft bgs at both DP-SY-11 and PL2-602A, at 2.2 µg/kg and 8.5 µg/kg, respectively, which are below the soil screening level protective of surface water (109,000 µg/kg). Toluene was not detected in the groundwater samples from either of these locations. In addition, this concentration is below both the overall maximum concentration of toluene in South Yard Area soil (650,000 µg/kg) and the direct contact exposure pathway screening level (134,000,000 µg/kg).

As identified in Work Plan Section 2.4.3.7, addressing data gaps for toluene via the surface water pathway consists of verifying that groundwater has not been impacted by toluene in soils at AOC 2-80.58 (Deactivated Sump) and SWMU 78.5 (Oil/Water Separator). Toluene was not detected in any of the groundwater samples collected in association with either of these units.

5.3.8 1,1,1-Trichloroethane

The scope of the data gaps investigation for 1,1,1-trichloroethane was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, 1,1,1-trichloroethane had been analyzed in 240 South Yard Area soil samples and detected in 38 of those samples. Of those samples where 1,1,1-trichloroethane was detected, none were reported at concentrations greater than the 1,632,810 µg/kg soil screening level protective of surface water. The maximum concentration of 1,1,1-trichloroethane detected was 110,000 µg/kg. The maximum concentration (110,000 µg/kg)

was detected in the sample from 5.5 feet bgs in the SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage) area.

During this investigation 1,1,1-trichloroethane was analyzed in an additional 45 soil samples collected from 15 locations. 1,1,1-Trichloroethane was only detected in one of those samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including 1,1,1-trichloroethane. Table 5-2 presents a summary of all analytical soil results for this investigation and includes 1,1,1-trichloroethane.

A table of 1,1,1-trichloroethane analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (1,632,810 µg/kg) are provided in Attachment F. A thorough discussion of historical 1,1,1-trichloroethane results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for 1,1,1-trichloroethane.

The single detection of 1,1,1-trichloroethane was reported in soil from 1 ft. bgs at DP-SY-11 located west of SWMU 78.5 Oil/Water Separator. The concentration reported for this samples was 1.2 µg/kg, which is below the soil screening level protective of surface water (1,200,000 µg/kg). 1,1,1-Trichloroethane was not detected in deeper soil samples or in the groundwater sample collected from this location. In addition, this concentration is below both the overall maximum concentration of 1,1,1-trichloroethane in South Yard Area soil (110,000 µg/kg) and the direct contact exposure pathway screening level (412,000,000 µg/kg).

As identified in Work Plan Section 2.4.3.8, addressing data gaps for 1,1,1-trichloroethane in South Yard Area soil consists of evaluation of the air pathway. The maximum soil concentration of 1,1,1-trichloroethane associated with the South Yard Data Gaps Investigation is below the proposed air pathway screening level (27,800 µg/kg). However, data gaps for 1,1,1-trichloroethane associated with the air pathway were identified in Work Plan Section 2.4.3.8, and will be evaluated as part of the work planned and described in the Uplands CMS Volume II: Attachment C, Johnson and Ettinger Work Plan.

5.3.9 Trichloroethene

The scope of the data gaps investigation for trichloroethene was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, trichloroethene had been analyzed in 250 South Yard Area soil samples and detected in 112 of those samples. Of those samples where trichloroethene was detected, 89 were reported at concentrations greater than the 2.0 µg/kg soil screening level protective of surface water. The concentration of trichloroethene detected above this soil screening level ranged from 2 to 7,600 µg/kg. The maximum concentration (7,600 µg/kg) was detected in the sample from 0.5 feet bgs in the SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage) area.

During this investigation trichloroethene was analyzed in an additional 45 soil samples collected from 15 locations. Trichloroethene was detected above RLs in 17 of those samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including trichloroethene. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of trichloroethene analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The trichloroethene soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (2.0 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical trichloroethene results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for trichloroethene.

Of the 17 new samples in which trichloroethene was detected, concentrations ranged from 1.2 µg/kg to 130 µg/kg. Ten of the 17 detected concentrations exceeded the screening level protective of surface water (2.0 µg/kg). Trichloroethene was detected in soils collected in the southeast corner of the South Yard at DP-SY-03 and DP-SY-05 from 1 to 10 feet bgs at concentrations that ranged between 3.7 µg/kg and 19 µg/kg. Concentrations in this area generally increased with depth. Trichloroethene was detected in soils collected to the southwest of SWMU 78.5 Oil/Water separator at DP-SY-10 through DP-SY-12 from 1 to 10 feet bgs at concentrations that ranged between 2.1 µg/kg and 4 µg/kg. Concentrations in this area generally decreased with depth. Trichloroethene was detected in soils collected from 1 to 10 feet bgs at PL2-602A, located in the central portion of SWMU 2-89.68. Concentrations for the three samples collected at this location ranged between 3.4 µg/kg and 130 µg/kg, with the highest concentration occurring at 5 feet bgs. These three areas are located along the southern Boeing property boundary. The maximum concentration (130 µg/kg) of trichloroethene in soil associated with the data gaps investigation is below both the overall maximum concentration of trichloroethene in South Yard Area soil (7,600 µg/kg) and the direct contact exposure pathway screening level (136,000 µg/kg).

As identified in Work Plan Section 2.4.3.9, addressing data gaps for trichloroethene via the surface water pathway consists of verifying that groundwater has not been impacted by trichloroethene in soils at SWMU 78.B (Oil/Water Separator), SWMU 78.5 (Machine Pit), SWMU 79.A (Cisterns 1, 2, 3), SWMU 79.B (Cistern 4), SWMU 2-89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area).

Trichloroethene was not detected in any of the four groundwater samples collected in association with SWMU 78.B or in either of the two groundwater samples associated with SWMU 78.5.

During the data gap investigation, groundwater was sampled from five locations (DP-SY-2 through DP-SY-5, PL2-151A, and PL2-156A) to evaluate the soil to groundwater pathway for trichloroethene at SWMU 79.A. Trichloroethene was detected in the groundwater samples from monitoring wells PL2-151A and PL2-156A at 6.4 µg/L and 0.4 µg/L, respectively. Both detected concentrations exceed the groundwater screening level protective of surface water (0.302 µg/L).

Groundwater samples were collected from four locations (DP-SY-1, and PL2-152A through PL2-154A) adjacent to and downgradient of SWMU 79.B to evaluate the soil to groundwater pathway for trichloroethene at this unit. Among these samples, trichloroethene was detected in groundwater from PL2-152A only, at a concentration of 1.1 µg/L, which is above the groundwater screening level protective of surface water. Monitoring well PL2-152A is the closest of the four sampling locations to SWMU 79.B, and is therefore likely to be the first to indicate migration of trichloroethene from soil at this unit to groundwater.

Groundwater samples were collected from four locations (PL2-115A, PL2-117A, PL2-602A, and PL2-603A) to evaluate the soil to groundwater pathway for trichloroethene at SWMU 2-89.68. Trichloroethene was detected above the groundwater screening level protective of surface water in all four samples, at concentrations ranging from 0.4 µg/L to 110 µg/L.

Finally, groundwater analytical results from five sampling locations (PL2-112A, PL2-113A, and PL2-115A through PL2-117A) were used to evaluate the soil to groundwater pathway for trichloroethene at SWMU 2-91.70. Trichloroethene was detected in groundwater from all of these locations, with the exception of PL2-116A, which is the furthest downgradient of the five locations. All four detected concentrations exceeded the groundwater screening level protective of surface water, ranging from 2.4 µg/L to 110 µg/L.

5.3.10 Vinyl Chloride

The scope of the data gaps investigation for vinyl chloride was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, vinyl chloride had been analyzed in 250 South Yard Area soil samples and detected in 19 of those samples. Of those samples where vinyl chloride was detected, fifteen were reported at concentrations greater than the 4.59 µg/kg soil screening level protective of surface water. The concentration of vinyl chloride detected above this soil screening level ranged from 8.2 to 1,100 µg/kg. The maximum concentration (1,100 µg/kg) was detected in the sample from 8 feet bgs in the SWMU 2-89.68 (Reclamation Yard) area.

During this investigation vinyl chloride was analyzed in an additional 45 soil samples collected from 15 locations. Vinyl chloride was detected above RLs in five of those samples. Table 5-1 presents a summary of constituents detected in data gap investigation samples including vinyl chloride. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of vinyl chloride analytical results for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. The vinyl chloride soil concentration maps presented in the work plan were revised to include the data gap investigation results. The revised soil concentration maps are provided in Attachment F of this document. Isoconcentration contours representing the screening level (4.59 µg/kg) have been added to the soil concentration maps. A thorough discussion of historical vinyl chloride results prior to the data gaps investigation is provided in the work plan; the following provides a brief summary of the data gap investigation results for vinyl chloride.

Among the five new soil samples in which vinyl chloride was detected, concentrations ranged from 2.2 µg/kg to 11 µg/kg. Three of the five detected concentrations exceeded the screening level protective of surface water (4.59 µg/kg). All three samples were collected at 10 feet bgs in the southeast corner of the South Yard and DP-SY-03 thorough DP-SY-05. Concentrations ranged between 6.5 and 11 µg/kg. The maximum concentration of vinyl chloride in soil associated with the data gaps investigation is below both the overall maximum concentration of vinyl chloride in South Yard Area soil (1,100 µg/kg) and the direct contact exposure pathway screening level (49,700 µg/kg).

As identified in Work Plan Section 2.4.3.10, addressing data gaps for vinyl chloride via the surface water pathway consists of verifying that groundwater has not been impacted by vinyl chloride in soils at SWUM 79.A (Cisterns 1, 2, 3), SWMU 79.B (Cistern 4), SWMU 2-89.68 (Reclamation Yard), and SWMU 2-91.70 (Deactivated Waste Oil and Coolant Storage Area).

During the data gaps investigation, groundwater was sampled from five locations (DP-SY-2 through DP-SY-5, PL2-151A, and PL2-156A) to evaluate the soil to groundwater pathway for vinyl chloride at SWMU 79.A. Vinyl chloride was detected in groundwater from four of these five locations, at concentrations ranging from 8.8 µg/L to 31 µg/L, all exceeding the groundwater screening level protective of surface water (0.73 µg/L).

Groundwater samples were collected from four locations (DP-SY-1, and PL2-152A through PL2-154A) adjacent to and downgradient of SWMU 79.B to evaluate the soil to groundwater pathway for vinyl chloride at this unit. Vinyl chloride was detected above the groundwater screening level protective of surface water in all four samples, at concentrations ranging from 0.9 to 2.9 µg/L.

Groundwater samples were collected from four locations (PL2-115A, PL2-117A, PL2-602A, and PL2-603A) to evaluate the soil to groundwater pathway for vinyl chloride at SWMU 2-89.68. Vinyl chloride was detected above the groundwater screening level protective of surface water in all four samples, at concentrations ranging from 4.3 µg/L to 24 µg/L.

Finally, groundwater analytical results from five sampling locations (PL2-112A, PL2-113A, and PL2-115A through PL2-117A) were used to evaluate the soil to groundwater pathway for vinyl chloride at SWMU 2-91.70. Vinyl chloride was detected above the screening level protective of surface water in groundwater from all five locations, at concentrations ranging from 2.8 to 7.4 µg/L.

5.4 PETROLEUM HYDROCARBONS

In association with the South Yard Data Gaps Investigation, soil samples were analyzed for petroleum hydrocarbons in accordance with the work plan (EPI, et. al., 2004). Using both historical data and South Yard Data Gaps Investigation results, petroleum hydrocarbons were again screened to determine which COCs for the South Yard Area, as described in Work Plan Section 2.4. The resulting COC list is identical to that presented in Work Plan Section 2.4.4. Three site-wide petroleum hydrocarbon COCs are also COCs in soil for the South Yard Area, total petroleum hydrocarbons, DRPH, and GRPH.

In the following sections, the petroleum hydrocarbon data generated by this investigation are summarized and evaluated. A number of the data gaps identified for petroleum hydrocarbons in the Work Plan Section 2.4 involved determining whether the soil has impacted groundwater.

5.4.1 Total Petroleum Hydrocarbons

The scope of the data gaps investigation for total petroleum hydrocarbons (TPHs) was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, TPHs had been analyzed in 156 South Yard Area soil samples and detected in 79 of those samples. Of those samples where TPHs were detected, 26 were reported at concentrations greater than the 2,000 mg/kg soil screening level. The concentrations of TPHs detected within the South Yard Area that exceeded the soil screening levels protective of surface water ranged from 2,379 to 56,827 mg/kg. The maximum concentration of TPH detected was in a sample collected from 5 feet bgs in the SWMU 2-91.71 Deactivated Waste Oil and Coolant Storage Area.

During this investigation, TPHs were not analyzed for as an “individual” COC. An analysis for total petroleum hydrocarbons was not conducted, as this was a legacy from analytical methods used during the RIFS. The method historically used for TPH analysis (EPA Method 418.1) is a method that is no in common use by the laboratory due to its use of chlorofluorocarbon solvent. Analyses were conducted for gasoline range, diesel range, and motor oil range petroleum hydrocarbons using the methods as proscribed in the QAPP.

A table of results for TPHs for all historical samples presenting sample locations, concentration, and depth is provided in Attachment F. Isoconcentration contours representing the respective screening levels have been added to the total petroleum hydrocarbon soil concentration maps and are provide in Attachment F. A thorough discussion of historical TPHs results prior to the data gaps investigation are provided in the work plan.

5.4.2 Diesel-Range Petroleum Hydrocarbons

The scope of the data gaps investigation for diesel-range petroleum hydrocarbons (DRPHs) was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, DRPHs had been analyzed in 96 South Yard Area soil samples and detected in seven of those samples. Of those samples where DRPHs were detected, three were reported at concentrations greater than the 2,000 mg/kg soil screening level. The concentrations of DRPHs detected within the South Yard Area that exceeded the soil screening level ranged from 2,400 to 14,000 mg/kg. The maximum concentration (14,000 mg/kg) was detected in the sample from 10 feet bgs in the OA-10 (Former UST PL-20) area.

During this investigation DRPHs were analyzed in an additional three soil samples collected from a single location. DRPHs were detected in all three of those samples. Of these samples in which DRPHs were detected, none were reported at concentrations greater than the soil screening level. Table 5-2 presents a summary of all analytical soil results for this investigation.

A table of analytical results for DRPHs for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (2,000 mg/kg) are provided in Attachment F. A thorough discussion of historical DRPHs results prior to the data gaps investigation are provided in the work plan; the following provides a brief summary of the data gap investigation results for DRPHs.

In the three new soil samples in which DRPHs were detected, concentrations ranged from 15 mg/kg to 34 mg/kg. The maximum concentration of DRPHs in soil associated with the data gaps investigation is below both the overall maximum concentration of DRPHs in South Yard Area soil (14,000 mg/kg) and the direct contact exposure pathway screening level (2,000 mg/kg).

5.4.3 Gasoline-Range Petroleum Hydrocarbons

The scope of the data gaps investigation for gasoline-range petroleum hydrocarbons (GRPHs) was based on historical information and data set contained in the Plant 2 RCRA data base at the time the work plan (EPI, et. al., 2004) was written. At that time, GRPHs had been analyzed in 95 South Yard Area soil samples and detected in four of those samples. Of those samples where GRPHs were detected, three were reported at concentrations greater than the 30 mg/kg soil screening level protective of surface water. The concentrations of GRPHs detected within the South Yard Area that exceeded the soil screening levels protective of surface water ranged from 1,200 to 14,000 mg/kg. The maximum concentration (14,000 mg/kg) was detected in the sample from 8 feet bgs in the OA-3 (Former UST PL-23) area.

During this investigation GRPHs were analyzed in an additional three soil samples collected from a single location. GRPHs were not detected in any of the three new samples. Table 5-2 presents a summary of all analytical soil results for this investigation and includes GRPHs.

A table of analytical results for GRPHs for all historical and data gap investigation samples presenting sample locations, concentration, and depth is provided in Attachment F. Soil concentration maps with isoconcentration contours representing the screening level (30 mg/kg) are provided in Attachment F. A thorough discussion of historical GRPHs results prior to the data gaps investigation are provided in the work plan; the following provides a brief summary of the data gap investigation results for GRPHs.

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6.0 Geologic Results

Boeing installed and sampled six new monitoring wells and 12 direct-push probes as part of the South Yard Area Data Gap Investigation. Geologic logs and as-built diagrams for the wells and probes are presented in attachment A. The geologic units encountered during the South Yard Area Data Gap Investigation are consistent with the geology of the South Yard Area and Plant 2 in general as described in the RCRA Facility Investigation Work Plan (Weston, 1994).

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7.0 References

Boeing, 2006. *Technical Memorandum: Development and Use of Background Values.* Environmental Partners, Inc., Floyd|Snider, Golder Associates Inc.. *Prepared for The Boeing Company.* Seattle, Washington. March 30, 2006.

Environmental Partners Inc., Floyd|Snider, Golder Associates Inc.. 2004. *Uplands Corrective Measures Study (CMS) Volume III: South Yard Area, Data Gap Investigation Work Plan, Sections 1 through 3. Prepared for The Boeing Company. Seattle, Washington. October 2004.*

United States Environmental Protection Agency (USEPA). 1996. Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures. USEPA Groundwater Issue, April.

United States Environmental Protection Agency (USEPA). May 2, 2006. Letter to The Boeing Company, Attn. Mr. Will Ernst, RE: Uplands Corrective Measures Study (CMS) Volume III South Yard Area Data Gap Investigation Report, the CMS process, and Corrective Measures Study (CMS) Volume ~~III~~ IV 2-60s Area Data Gap Investigation Report, Boeing Plant 2, Seattle/Tukwila, Washington, Resource Conservation Recovery Act (RCRA) Docket No. 1092-01-22-3008(h), EPA ID No. WAD 00925 6819.

Washington State Department of Ecology (Ecology). 1994. *Natural Background Soil Metals Concentrations in Washington State*. Toxics Cleanup Program. Publication #94-115. October.

Roy F. Weston, Inc. (Weston) 1994a. *RCRA Facility Investigation Work Plan, Boeing—Plant 2, Seattle/Tukwila, Washington*. Prepared for The Boeing Company. Seattle, Washington.

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Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

Tables

Table 2-1 Modifications to Section 3 of the Work Plan
South Yard Area
Boeing Plant 2

Original Procedure, Method, or Process	Actual Procedure, Method, or Process	Reason for Modification
Wells PL2-JF016 and PL2-JF022 on the Jorgensen Forge property were among the 20 wells selected for the hydrologic investigation and were scheduled to have transducers installed to obtain water level measurements.	Wells PL2-JF031 and PL20JF036 were substituted for PL2-JF016 and PL2-JF022, respectively, as part of the 20 wells selected for the hydrologic investigation.	Wells PL2-JF016 and PL2-JF022 each contained several feet of floating product, noted during a preliminary site reconnaissance, and were deemed unfit for the hydrologic investigation. Substitute wells PL2-JF031 and PL20JF036 had no measurable floating product layers.
Original proposed well and probe locations shown in Work Plan Figure 2-1.	Actual well and probe locations shown in Figure 4-1.	Proposed probe and well locations were subject to change based on underground utilities, overhead obstacles such as power lines and overhangs, and other logistical factors.
Field parameter information obtained during well development will be recorded by the subcontractor	Field parameter information obtained during well development was recorded by the field engineer.	Drilling subcontractor did not have the instrumentation or expertise to perform this task.

Table 2-1 Modifications to Section 3 of the Work Plan
South Yard Area
Boeing Plant 2

Original Procedure, Method, or Process	Actual Procedure, Method, or Process	Reason for Modification
Groundwater and soil sampling following the sampling matrix as presented in Work Plan Table 2-2.	Groundwater sampling followed the sampling matrix as presented in Work Plan Table 3-5, which was later found to be an old version and not consistent with Work Plan Table 2-2. The following sampling points were affected by this issue: • PL2-602A – missing TPH • PL2-151A – missing SVOCs and PCBs • PL2-152A - missing SVOCs • DP-SY-11 and DP-SY-12 - missing PCBs Boeing re-sampled the affected wells to obtain a full data set as presented in the work plan.	Human error caused the omission of samples for several constituent groups at five sampling locations. The samples were obtained at a later date and are included in this report.
Metals samples from wells were to be field filtered only if the turbidity was greater than 5 NTUs and in that case both filtered and unfiltered samples were to be obtained.	Both filtered and unfiltered samples were obtained for metals at all well locations in the South Yard Area regardless of sample turbidity.	Both filtered and unfiltered samples were obtained at all sampled wells for consistency

Table 2-2: Construction Summary for Installed Wells
South Yard Area
Boeing Plant 2

Monitoring Well Number	Northing	Easting	Rim Elevation of Casing (ft.)	Measuring Point Elevation (ft.)	Screened Interval (ft. bgs)	Screen Slot Size	Total Depth (ft. bgs)	Centralizer Locations (ft. bgs)
PL2-601A	195,822	1,276,832	13.15	12.75	5-20	10-slot	21.0	4.5 and 20
PL2-601B	195,822	1,276,841	13.08	12.67	45-50	10-slot	51.0	20, 44 and 49.5
PL2-602A	195,821	1,276,702	13.24	12.90	6-21	10-slot	22.0	5.5 and 21
PL2-602B	195,821	1,276,707	13.22	12.74	44.5-49.5	10-slot	50.5	20, 44 and 49.5
PL2-603A	195,821	1,276,595	13.10	12.70	6-21	10-slot	22.0	5.5 and 21
PL2-603B	195,821	1,276,599	13.09	12.55	44.5-49.5	10-slot	51.0	20, 44 and 49.5

Horizontal Datum = North American Datum 1983(91) (NAD83(91))
Vertical Datum = National Geodetic Vertical Datum 1929 (NGVD, 29)

Table 3-1 Detected Constituents in Groundwater Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 GW Screening Level	Laboratory RL	Sample ID: / Location: / Depth (ft bgs): / Sample Date:	SY-DP-01-15 / DP-SY-01 / 15 - 15 / 3/8/2005	SY-DP-01-15-F / DP-SY-01 / 15 - 15 / 3/8/2005	SY-DP-02-15 / DP-SY-02 / 15 - 15 / 3/7/2005	SY-DP-02-15-F / DP-SY-02 / 15 - 15 / 3/7/2005	SY-DP-03-15 / DP-SY-03 / 15 - 15 / 3/7/2005	SY-DP-03-15-1 / DP-SY-03 Dup. / 15 - 15 / 3/7/2005	SY-DP-03-15-F / DP-SY-03 / 15 - 15 / 3/7/2005	SY-DP-03-15-F-1 / DP-SY-03 Dup. / 15 - 15 / 3/7/2005	SY-DP-04-15 / DP-SY-04 / 15 - 15 / 3/7/2005	SY-DP-04-15-F / DP-SY-04 / 15 - 15 / 3/7/2005	SY-DP-05-15 / DP-SY-05 / 15 - 15 / 3/7/2005	SY-DP-05-15-F / DP-SY-05 / 15 - 15 / 3/7/2005	SY-DP-06-15 / DP-SY-06 / 15 - 15 / 3/7/2005	SY-DP-06-15-F / DP-SY-06 / 15 - 15 / 3/7/2005	SY-DP-07-15 / DP-SY-07 / 15 - 15 / 3/7/2005	SY-DP-07-15-F / DP-SY-07 / 15 - 15 / 3/7/2005
VOCs (µg/L)																					
Vinyl Chloride	EPA 8260B	0.731	0.2		0.9		10		7.1	20			28		31		0.2 U		0.2 U		
Chloroethane	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Methylene Chloride	EPA 8260B	190	0.3		0.3 U		0.3 U		0.3 U	2 U			2 U		2 U		0.3 U		0.3 U		
Acetone	EPA 8260B		1.0		1 R		1 R		1 R	5 R			5 U		5 U		1 R		1 R		
Carbon Disulfide	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
1,1-Dichloroethene	EPA 8260B	0.382	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
1,1-Dichloroethane	EPA 8260B		0.2		2.4		8.6		0.5	1.4			1 U		1 U		0.2 U		0.2 U		
trans-1,2-Dichloroethene	EPA 8260B	10000	0.2		0.2 U		1.4		0.4	1.2			1.4		1.7		0.2 U		0.2 U		
cis-1,2-Dichloroethene	EPA 8260B	1550	0.2		0.2 U		2		0.7	2			3.8		8.3		0.3		0.2 U		
Chloroform	EPA 8260B	56.1	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
1,2-Dichloroethane	EPA 8260B	11.7	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
2-Butanone	EPA 8260B		1.0		1 U		1 U		1 U	5 U			5 U		5 U		1 U		1 U		
1,1,1-Trichloroethane	EPA 8260B	206000	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Bromodichloromethane	EPA 8260B	5.52	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Trichloroethene	EPA 8260B	0.302	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Benzene	EPA 8260B	4.48	0.2		0.2 U		0.8		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Methyl isobutyl ketone	EPA 8260B		1.0		1 R		1 U		1 U	5 U			5 U		5 U		1 U		1 U		
Tetrachloroethene	EPA 8260B	0.822	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Toluene	EPA 8260B	15000	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Ethylbenzene	EPA 8260B	2100	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
Trichlorofluoromethane	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
1,1,2-Trichlorotrifluoroethane	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	2 U			2 U		2 U		0.2 U		0.2 U		
m,p-Xylene	EPA 8260B		0.4		0.4 U		0.4 U		0.4 U	1 U			1 U		1 U		0.4 U		0.4 U		
o-Xylene	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		
SVOCs (µg/L)																					
Phenol	EPA 8270C	275000	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		
2-Methylphenol	EPA 8270C	10200	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		
4-Methylphenol	EPA 8270C	1030	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		
2,4-Dimethylphenol	EPA 8270C	273	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		
Naphthalene	EPA 8270C	2440	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		
4-Chloro-3-methylphenol	EPA 8270C	18300	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		
Di-n-Butylphthalate	EPA 8270C	1440	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		
Naphthalene	EPA 8270SIM	2440	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		
Inorganics (Total) (µg/L)																					
Arsenic	EPA 200.8	0.2	0.2																		
Cadmium	EPA 6010B	8.8	2.0																		
Chromium	EPA 6010B		5.0																		
Copper	EPA 200.8	3.1	0.5																		
Lead	EPA 200.8	8.1	1.0																		
Manganese	EPA 6010B	100	1.0																		
Mercury	EPA 1631E	0.025	0.025																		
Nickel	EPA 200.8	8.2	0.5																		
Silver	EPA 200.8	1.9	0.2																		
Vanadium	EPA 6010B	2810	3.0																		
Zinc	EPA 6010B	81	6.0																		
Inorganics (Dissolved) (µg/L)																					
Arsenic	EPA 200.8	0.2	0.2			36.1		67			82.8	82.1		86.6		75.4		7.6 U		8.2 U	
Cadmium	EPA 6010B	8.8	2.0			2 U		2 U			2 U	2 U		2 U		2 U		2 U		2 U	
Chromium	EPA 6010B		5.0			5 U		5 U			5 U	5 U		5 U		5 U		5 U		5 U	
Chromium(VI)	A3500D	50	10.0		11 UJ		11 U		11 U	11 U			11 U		11 U						
Copper	EPA 200.8	3.1	0.5			0.5 U		0.5 U			0.5 U	0.5 U		0.5 U		0.5 U		0.5 U		0.5 U	
Lead	EPA 200.8	8.1	1.0			1 U		1 U			1 U	1 U		1 U		1 U		1 U		1 U	
Manganese	EPA 6010B	100	1.0			1250		4300			2310	2300		6930		4590		852		903	
Mercury	EPA 1631E	0.025	0.025			0.025 U		0.025 UJ			0.025 UJ	0.025 UJ		0.025 UJ		0.025 UJ		0.025 UJ		0.025 UJ	
Nickel	EPA 200.8	8.2	0.5			0.6		2.1			1.2	1.2		2.2		1.7		1.1		1.8	
Silver	EPA 200.8	1.9	0.2			0.2 U		0.2 U			0.2 U	0.2 U		0.2 U		0.2 U		0.2 U		0.2 U	
Vanadium	EPA 6010B	2810	3.0			13		7			10	10		6		8		3 U		3	
Zinc	EPA 6010B	81	6.0			11		20			6 U	6 U		24		23		8		8	
Petroleum Hydrocarbons (µg/L)																					
TPH - Diesel Range	NWTPH-Dx	500	250																		
TPH - Motor Oil Range	NWTPH-Dx	500	500																		

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-1 Detected Constituents in Groundwater Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 GW Screening Level	Laboratory RL	Sample ID: / Location: / Depth (ft bgs): / Sample Date:	SY-DP-08-15 / DP-SY-08 / 15 - 15 / 3/7/2005	SY-DP-08-15-F / DP-SY-08 / 15 - 15 / 3/7/2005	SY-DP-09-15 / DP-SY-09 / 15 - 15 / 3/8/2005	SY-DP-09-15-F / DP-SY-09 / 15 - 15 / 3/8/2005	SY-DP-10-18 / DP-SY-10 / 18 - 18 / 3/8/2005	SY-DP-10-18 / DP-SY-10 Re. / 18 - 18 / 3/8/2005	SY-DP-10-18-F / DP-SY-10 / 18 - 18 / 3/8/2005	SY-DP-11-17 / DP-SY-11 / 17 - 17 / 3/8/2005	SY-DP-11-17-F / DP-SY-11 / 17 - 17 / 3/8/2005	SY-DP-12-15 / DP-SY-12 / 15 - 15 / 3/8/2005	SY-DP-12-15-F / DP-SY-12 / 15 - 15 / 3/8/2005	SY-PL2-106A / PL2-106AR / 8 - 16 / 3/14/2005	SY-PL2-106A-F / PL2-106AR / 8 - 16 / 3/14/2005	SY-PL2-106B / PL2-106B / 39 - 49 / 3/14/2005	SY-PL2-106B-F / PL2-106B / 39 - 49 / 3/14/2005	SY-PL2-106C / PL2-106C / 82.5 - 92.5 / 3/14/2005
VOCs (µg/L)																				
Vinyl Chloride	EPA 8260B	0.731	0.2		0.2 U		0.2 U		0.6	2 U		0.8		2.5		14		0.2 U		0.2 UJ
Chloroethane	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.5		0.2 U		0.2 U		0.2 UJ
Methylene Chloride	EPA 8260B	190	0.3		0.3 U		0.3 U		0.3 U	3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 UJ
Acetone	EPA 8260B		1.0		1 R		1 R		1 R	10 R		1 R		2.2 J		3 J		3.5 J		8.9 J
Carbon Disulfide	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
1,1-Dichloroethene	EPA 8260B	0.382	0.2		0.2 U		0.2 U		0.4	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
1,1-Dichloroethane	EPA 8260B		0.2		0.2 U		0.2 U		13	15		1.9		1.2		0.9		0.2 U		0.2 UJ
trans-1,2-Dichloroethene	EPA 8260B	10000	0.2		0.2 U		0.2 U		3.3	6.8		0.4		0.2 U		1.5		0.2 U		0.2 UJ
cis-1,2-Dichloroethene	EPA 8260B	1550	0.2		0.4		0.2 U		50 ES	83		1.1		0.6		4.2		0.2 U		0.2 UJ
Chloroform	EPA 8260B	56.1	0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
1,2-Dichloroethane	EPA 8260B	11.7	0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.3		0.4		0.2 UJ
2-Butanone	EPA 8260B		1.0		1 U		1 U		1 U	10 U		1 U		1 U		1 U		1 U		1 UJ
1,1,1-Trichloroethane	EPA 8260B	206000	0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
Bromodichloromethane	EPA 8260B	5.52	0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
Trichloroethene	EPA 8260B	0.302	0.2		0.2 U		0.2 U		15	20		0.2 U		0.2 U		3		0.2 U		0.2 UJ
Benzene	EPA 8260B	4.48	0.2		0.2 U		0.2 U		0.2 U	2 U		0.3		0.2 U		0.3		0.2 U		0.2 UJ
Methyl isobutyl ketone	EPA 8260B		1.0		1 U		1 R		1 R	10 R		1 R		1 R		1 R		1 R		1 R
Tetrachloroethene	EPA 8260B	0.822	0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
Toluene	EPA 8260B	15000	0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
Ethylbenzene	EPA 8260B	2100	0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
Trichlorofluoromethane	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
1,1,2-Trichlorotrifluoroethane	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
m,p-Xylene	EPA 8260B		0.4		0.4 U		0.4 U		0.4 U	4 U		0.4 U		0.4 U		0.4 U		0.4 U		0.4 UJ
o-Xylene	EPA 8260B		0.2		0.2 U		0.2 U		0.2 U	2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 UJ
SVOCs (µg/L)																				
Phenol	EPA 8270C	275000	1.0		1 U		1 U													
2-Methylphenol	EPA 8270C	10200	1.0		1 U		1 U													
4-Methylphenol	EPA 8270C	1030	1.0		1 U		1 U													
2,4-Dimethylphenol	EPA 8270C	273	1.0		1 U		1 U													
Naphthalene	EPA 8270C	2440	1.0		1 U		1 U													
4-Chloro-3-methylphenol	EPA 8270C	18300	5.0		5 U		5 U													
Di-n-Butylphthalate	EPA 8270C	1440	1.0		1 U		1 U													
Naphthalene	EPA 8270SIM	2440	0.1		0.1 U		0.1 U													
Inorganics (Total) (µg/L)																				
Arsenic	EPA 200.8	0.2	0.2													38.4		0.5		4
Cadmium	EPA 6010B	8.8	2.0													2 U		2 U		4 U
Chromium	EPA 6010B		5.0													5 U		5 U		10 U
Copper	EPA 200.8	3.1	0.5													1.7		0.5		2 U
Lead	EPA 200.8	8.1	1.0													1 U		1 U		5 U
Manganese	EPA 6010B	100	1.0													1310		812		255
Mercury	EPA 1631E	0.025	0.025													0.025 U		0.025 U		0.025 UJ
Nickel	EPA 200.8	8.2	0.5													1.8		0.6		7
Silver	EPA 200.8	1.9	0.2													0.2 U		0.2 U		1 U
Vanadium	EPA 6010B	2810	3.0													8		3 U		6 U
Zinc	EPA 6010B	81	6.0													6 U		6 U		10 U
Inorganics (Dissolved) (µg/L)																				
Arsenic	EPA 200.8	0.2	0.2			3.4 U		20.8			9.4		85		15.8		35.1		0.6	
Cadmium	EPA 6010B	8.8	2.0			2 U		2 U			2 U		2 U		2 U		2 U		2 U	
Chromium	EPA 6010B		5.0			5 U		5 U			5 U		8		5 U		5 U		5 U	
Chromium(VI)	A3500D	50	10.0																	
Copper	EPA 200.8	3.1	0.5			0.5 U		0.5 U			0.5 U		0.5 U		0.5 U		1.2		0.5 U	
Lead	EPA 200.8	8.1	1.0			1 U		1 U			1 U		1 U		1 U		1 U		1 U	
Manganese	EPA 6010B	100	1.0			673		1780			2290		1260		2210		1440		1010	
Mercury	EPA 1631E	0.025	0.025			0.025 UJ		0.025 U			0.025 U		0.025 U		0.025 U		0.025 U		0.025 U	
Nickel	EPA 200.8	8.2	0.5			1.1		1			1.8		4.9		2.5		1.8		1.1	
Silver	EPA 200.8	1.9	0.2			0.2 U		0.2 U			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U	
Vanadium	EPA 6010B	2810	3.0			7		6			3 U		37		15		9		3 U	
Zinc	EPA 6010B	81	6.0			7		15			15		45		21 U		6 U		34	
Petroleum Hydrocarbons (µg/L)																				
TPH - Diesel Range	NWTPH-Dx	500	250																	
TPH - Motor Oil Range	NWTPH-Dx	500	500																	

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-1 Detected Constituents in Groundwater Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 GW Screening Level	Laboratory RL	Sample ID:	SY-PL2-106C-F	SY-PL2-110C	SY-PL2-110C-F	SY-PL2-11156A-1	SY-PL2-11156A-F-1	SY-PL2-112A	SY-PL2-112A	SY-PL2-112A-F	SY-PL2-112B	SY-PL2-112B-F	SY-PL2-113A	SY-PL2-113A	SY-PL2-113A-F	SY-PL2-115A	SY-PL2-115A
				Location:	PL2-106C	PL2-110C	PL2-110C	PL2-156A Dup.	PL2-156A Dup.	PL2-112A	PL2-112A Re.	PL2-112A	PL2-112B	PL2-112B	PL2-113A	PL2-113A Re.	PL2-113A	PL2-115A	PL2-115A Re.
				Depth (ft bgs):	82.5 - 92.5	82 - 92	82 - 92	6 - 16	6 - 16	8.5 - 18.5	8.5 - 18.5	8.5 - 18.5	40 - 50	40 - 50	8 - 18	8 - 18	8 - 18	7.5 - 17.7	7.5 - 17.7
				Sample Date:	3/14/2005	3/16/2005	3/16/2005	3/11/2005	3/11/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/15/2005	3/15/2005
VOCs (µg/L)																			
Vinyl Chloride	EPA 8260B	0.731	0.2			0.2 UJ		6.7		7.4	10 U		0.2 U		5.3	5.1		5.2	4.8
Chloroethane	EPA 8260B		0.2			0.2 UJ		0.2 U		320 ES	590		0.2 U		0.5	1 U		0.2 U	1 U
Methylene Chloride	EPA 8260B	190	0.3			0.3 UJ		0.3 U		0.3	20 U		0.3 U		0.3 U	2 U		0.3 U	2 U
Acetone	EPA 8260B		1.0			2.6 J		2 J		13 J	50 R		1 R		2.1 J	5 R		2.3 J	5 R
Carbon Disulfide	EPA 8260B		0.2			0.2 UJ		0.2 U		0.2 U	10 U		0.2 U		0.2 U	1 U		0.2 U	1 U
1,1-Dichloroethene	EPA 8260B	0.382	0.2			0.2 UJ		0.2 U		1.9	10 U		0.2 U		1.3	1.1		0.2	1 U
1,1-Dichloroethane	EPA 8260B		0.2			0.2 UJ		3.9		46 ES	66		0.2 U		30 E	32		1.2	1.1
trans-1,2-Dichloroethene	EPA 8260B	10000	0.2			0.2 UJ		0.4		0.8	10 U		0.2 U		0.2 U	1 U		0.3	1 U
cis-1,2-Dichloroethene	EPA 8260B	1550	0.2			0.2 UJ		0.5		15	12		0.2 U		3.9	3.7		46 E	49
Chloroform	EPA 8260B	56.1	0.2			0.2 UJ		0.2 U		0.2 U	10 U		0.2 U		0.2	1 U		0.2	1 U
1,2-Dichloroethane	EPA 8260B	11.7	0.2			0.2 UJ		0.2 U		0.6	10 U		0.2 U		0.2 U	1 U		0.2 U	1 U
2-Butanone	EPA 8260B		1.0			1 UJ		1 U		8.4	50 U		1 U		1 U	5 U		1 U	5 U
1,1,1-Trichloroethane	EPA 8260B	206000	0.2			0.2 UJ		0.2 U		1.3	10 U		0.2 U		0.3	1 U		0.7	1 U
Bromodichloromethane	EPA 8260B	5.52	0.2			0.2 UJ		0.2 U		0.2 U	10 U		0.2 U		0.2 U	1 U		0.2 U	1 U
Trichloroethene	EPA 8260B	0.302	0.2			0.2 UJ		0.4		2.6	10 U		0.2 U		17 E	13		74 ES	110
Benzene	EPA 8260B	4.48	0.2			0.2 UJ		0.4		1	10 U		0.2 U		5.3	4.6		0.2 U	1 U
Methyl isobutyl ketone	EPA 8260B		1.0			1 R		1 UJ		1.3 J	50 U		1 U		1 R	5 U		1 U	5 U
Tetrachloroethene	EPA 8260B	0.822	0.2			0.2 UJ		0.2 U		3.8	10 U		0.2 U		1.2	1 U		0.2	1 U
Toluene	EPA 8260B	15000	0.2			0.2 UJ		0.2 U		22 E	18		0.2 U		0.2 U	1 U		0.2 U	1 U
Ethylbenzene	EPA 8260B	2100	0.2			0.2 J		0.2 U		1	10 U		0.2 U		0.2 U	1 U		0.2 U	1 U
Trichlorofluoromethane	EPA 8260B		0.2			0.2 UJ		0.2 U		0.2 U	10 U		0.2 U		0.2 U	1 U		0.2 U	1 U
1,1,2-Trichlorotrifluoroethane	EPA 8260B		0.2			0.2 UJ		0.2 U		2.2	20 U		0.2 U		0.3	2 U		0.2 U	2 U
m,p-Xylene	EPA 8260B		0.4			0.4 UJ		0.4 U		3.8	10 U		0.4 U		0.4 U	1 U		0.4 U	1 U
o-Xylene	EPA 8260B		0.2			0.2 UJ		0.2 U		1.8	10 U		0.2 U		0.2 U	1 U		0.2 U	1 U
SVOCs (µg/L)																			
Phenol	EPA 8270C	275000	1.0					1 U		1 U	60 U				1 U			1 U	
2-Methylphenol	EPA 8270C	10200	1.0					1 U		4.2	60 U				1 U			1 U	
4-Methylphenol	EPA 8270C	1030	1.0					1 U		35	60 U				1 U			1 U	
2,4-Dimethylphenol	EPA 8270C	273	1.0					1 U		100 E	97				1 U			1 U	
Naphthalene	EPA 8270C	2440	1.0					1 U		1.4	60 U				1 U			1 U	
4-Chloro-3-methylphenol	EPA 8270C	18300	5.0					5 U		1500 E	2500				5 U			5 U	
Di-n-Butylphthalate	EPA 8270C	1440	1.0					1 U		5.3	60 U				1 U			1 U	
Naphthalene	EPA 8270SIM	2440	0.1					0.27 U		2 UJ	10 U				0.1 U			0.1 U	
Inorganics (Total) (µg/L)																			
Arsenic	EPA 200.8	0.2	0.2			4		104		63.7			0.8		7.1			0.8	
Cadmium	EPA 6010B	8.8	2.0			2 U		2 U		2 U			2 U		2 U			2 U	
Chromium	EPA 6010B		5.0			5 U		5 U		5 U			5 U		5 U			21	
Copper	EPA 200.8	3.1	0.5			2 U		1 U		2.9 U			8.4 U		1.8 U			4.3	
Lead	EPA 200.8	8.1	1.0			5 U		1 U		1 U			1 U		1 U			1 U	
Manganese	EPA 6010B	100	1.0			274		4630		2100			496		580			96	
Mercury	EPA 1631E	0.025	0.025			0.025 U		0.025 U		0.025 U			0.025 U		0.025 U			0.025 U	
Nickel	EPA 200.8	8.2	0.5			5		1 U		3.4			9.5		4.3			1.5	
Silver	EPA 200.8	1.9	0.2			1 U		0.2 U		0.2 U			0.2 U		0.2 U			0.2 U	
Vanadium	EPA 6010B	2810	3.0			4		10		9			5		7			3	
Zinc	EPA 6010B	81	6.0			6 U		6 U		6			29		6 U			6 U	
Inorganics (Dissolved) (µg/L)																			
Arsenic	EPA 200.8	0.2	0.2		4		6		99.8			59.1		0.7			8.9		
Cadmium	EPA 6010B	8.8	2.0		4 U		4 U		2 U			2 U		2 U			2 U		
Chromium	EPA 6010B		5.0		10 U		10 U		5 U			5 U		5 U			5 U		
Chromium(VI)	A3500D	50	10.0																
Copper	EPA 200.8	3.1	0.5		2 U		2 U		0.5 U			0.5 U		0.5 U			0.5 U		
Lead	EPA 200.8	8.1	1.0		5 U		5 U		1 U			1 U		1 U			1 U		
Manganese	EPA 6010B	100	1.0		255		280		4890			2170		540			612		
Mercury	EPA 1631E	0.025	0.025		0.025 U		0.025 U		0.025 U			0.025 U		0.025 U			0.025 U		
Nickel	EPA 200.8	8.2	0.5		7		5		1.1			2.2		2.4			3.8		
Silver	EPA 200.8	1.9	0.2		1 U		1 U		0.2 U			0.2 U		0.2 U			0.2 U		
Vanadium	EPA 6010B	2810	3.0		6 U		6 U		10			4		3 U			6		
Zinc	EPA 6010B	81	6.0		10 U		10 U		6 U			6 U		6 U			6 U		
Petroleum Hydrocarbons (µg/L)																			
TPH - Diesel Range	NWTPH-Dx	500	250							9800 E	8900				280			250 U	
TPH - Motor Oil Range	NWTPH-Dx	500	500							1300	2500 U				500 U			500 U	

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-1 Detected Constituents in Groundwater Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 GW Screening Level	Laboratory RL	Sample ID:	SY-PL2-115A-F	SY-PL2-116A	SY-PL2-116A-F	SY-PL2-117A	SY-PL2-117A	SY-PL2-117A-F	SY-PL2-120A	SY-PL2-120A-F	SY-PL2-151A	SY-PL2-151A-05202005	SY-PL2-151A-F	SY-PL2-151B	SY-PL2-151B-F	SY-PL2-151C	SY-PL2-151C-F
				Location:	PL2-115A	PL2-116A	PL2-116A	PL2-117A	PL2-117A Re.	PL2-117A	PL2-120A	PL2-120A	PL2-151A	PL2-151A	PL2-151A	PL2-151B	PL2-151B	PL2-151C	PL2-151C
				Depth (ft bgs):	7.5 - 17.7	7.5 - 17.8	7.5 - 17.8	7.9 - 17.9	7.9 - 17.9	7.9 - 17.9	8 - 18	8 - 18	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	75 - 80	75 - 80
				Sample Date:	3/15/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/10/2005	3/10/2005	3/11/2005	5/20/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005
VOCs (µg/L)																			
Vinyl Chloride	EPA 8260B	0.731	0.2			2.8		4.3			0.2 U		0.2 U			0.2 U		0.2 U	
Chloroethane	EPA 8260B		0.2			0.2 U		0.4			0.2 U		0.2 U			0.2 U		0.2 U	
Methylene Chloride	EPA 8260B	190	0.3			0.3 U		0.3 U			0.3 U		0.3 U			0.3 U		0.3 U	
Acetone	EPA 8260B		1.0			2.6 J		3.1 J			1 R		1.8 J			5.4 J		1 R	
Carbon Disulfide	EPA 8260B		0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
1,1-Dichloroethene	EPA 8260B	0.382	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
1,1-Dichloroethane	EPA 8260B		0.2			0.6		13			0.2 U		0.2 U			0.2 U		0.2 U	
trans-1,2-Dichloroethene	EPA 8260B	10000	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
cis-1,2-Dichloroethene	EPA 8260B	1550	0.2			1.5		4.9			0.2		2.8			0.2 U		0.2 U	
Chloroform	EPA 8260B	56.1	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
1,2-Dichloroethane	EPA 8260B	11.7	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
2-Butanone	EPA 8260B		1.0			1 U		1 U			1 U		1 U			1 U		1 U	
1,1,1-Trichloroethane	EPA 8260B	206000	0.2			0.2 U		1			0.2 U		0.2 U			0.2 U		0.2 U	
Bromodichloromethane	EPA 8260B	5.52	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
Trichloroethene	EPA 8260B	0.302	0.2			0.2 U		2.4			0.2 U		6.4			0.2 U		0.2 U	
Benzene	EPA 8260B	4.48	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
Methyl isobutyl ketone	EPA 8260B		1.0			1 R		1 R			1 R		1 UJ			1 UJ		1 UJ	
Tetrachloroethene	EPA 8260B	0.822	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
Toluene	EPA 8260B	15000	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
Ethylbenzene	EPA 8260B	2100	0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
Trichlorofluoromethane	EPA 8260B		0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
1,1,2-Trichlorotrifluoroethane	EPA 8260B		0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
m,p-Xylene	EPA 8260B		0.4			0.4 U		0.4 U			0.4 U		0.4 U			0.4 U		0.4 U	
o-Xylene	EPA 8260B		0.2			0.2 U		0.2 U			0.2 U		0.2 U			0.2 U		0.2 U	
SVOCs (µg/L)																			
Phenol	EPA 8270C	275000	1.0			1 U		3.2	30 U		1 U			1 U					
2-Methylphenol	EPA 8270C	10200	1.0			1 U		3.6	30 U		1 U			1 U					
4-Methylphenol	EPA 8270C	1030	1.0			1 U		32	30 U		1 U			1 U					
2,4-Dimethylphenol	EPA 8270C	273	1.0			1 U		77	70		1 U			1 U					
Naphthalene	EPA 8270C	2440	1.0			1 U		1 U	30 U		1 U			1 U					
4-Chloro-3-methylphenol	EPA 8270C	18300	5.0			5 U		1000 E	1600		5 U			5 U					
Di-n-Butylphthalate	EPA 8270C	1440	1.0			1 U		1 U	30 U		1 U			1.4 U					
Naphthalene	EPA 8270SIM	2440	0.1			0.1 U		1.3 UJ	10 U		0.1 U			0.1 U					
Inorganics (Total) (µg/L)																			
Arsenic	EPA 200.8	0.2	0.2			22.4		55.3			46.7		5			4		6	
Cadmium	EPA 6010B	8.8	2.0			2 U		2			2 U		2 U			2 U		2 U	
Chromium	EPA 6010B		5.0			5 U		160			5 U		5 U			5 U		5 U	
Copper	EPA 200.8	3.1	0.5			0.5 U		52.4			3		1 U			1 U		2 U	
Lead	EPA 200.8	8.1	1.0			1 U		12			2 U		1 U			1 U		5 U	
Manganese	EPA 6010B	100	1.0			3830		1780			937		811			839		764	
Mercury	EPA 1631E	0.025	0.025			0.025 U		0.0332			0.025 U		0.025 U			0.025 U		0.025 U	
Nickel	EPA 200.8	8.2	0.5			0.5		27.2			3		3			1 U		3	
Silver	EPA 200.8	1.9	0.2			0.2 U		0.2			0.5 U		0.2 U			0.2 U		1 U	
Vanadium	EPA 6010B	2810	3.0			3 U		104			6		3 U			3 U		5	
Zinc	EPA 6010B	81	6.0			6 U		215			6 U		6 U			6 U		6 U	
Inorganics (Dissolved) (µg/L)																			
Arsenic	EPA 200.8	0.2	0.2		0.2 U		22.2			40.3		3.8			4.5		4.4		5
Cadmium	EPA 6010B	8.8	2.0		2 U		2 U			2 U		2 U			2 U		2 U		2 U
Chromium	EPA 6010B		5.0		6		5 U			5 U		5 U			5 U		5 U		5 U
Chromium(VI)	A3500D	50	10.0									11 UJ			11 UJ				
Copper	EPA 200.8	3.1	0.5		1.3		0.5 U			0.5 U		0.6			1		0.5 U		2 U
Lead	EPA 200.8	8.1	1.0		1 U		1 U			1 U		1 U			1 U		1 U		5 U
Manganese	EPA 6010B	100	1.0		90		4200			1520		893			854		849		783
Mercury	EPA 1631E	0.025	0.025		0.025 U		0.025 U			0.025 U		0.025 U			0.025 U		0.025 U		0.025 U
Nickel	EPA 200.8	8.2	0.5		1.2		0.6			3.9		1.3			3		0.9		4
Silver	EPA 200.8	1.9	0.2		0.2 U		0.2 U			0.2 U		0.2 U			0.5 U		0.2 U		1 U
Vanadium	EPA 6010B	2810	3.0		3 U		3 U			3		3 U			3 U		3 U		5
Zinc	EPA 6010B	81	6.0		6 U		6 U			18		6 U			6 U		6 U		6 U
Petroleum Hydrocarbons (µg/L)																			
TPH - Diesel Range	NWTPH-Dx	500	250			250 U		380											
TPH - Motor Oil Range	NWTPH-Dx	500	500			500 U		500 U											

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-1 Detected Constituents in Groundwater Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 GW Screening Level	Laboratory RL	Sample ID:	SY-PL2-152A	SY-PL2-152A-05202005	SY-PL2-152A-F	SY-PL2-152B	SY-PL2-152B-F	SY-PL2-152C	SY-PL2-152C-F	SY-PL2-153A	SY-PL2-153A-F	SY-PL2-153B	SY-PL2-153B-F	SY-PL2-153C	SY-PL2-153C-F	SY-PL2-154A	SY-PL2-154A-F
				Location:	PL2-152A	PL2-152A	PL2-152A	PL2-152B	PL2-152B	PL2-152C	PL2-152C	PL2-153A	PL2-153A	PL2-153B	PL2-153B	PL2-153C	PL2-153C	PL2-154A	PL2-154A
				Depth (ft bgs):	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16
				Sample Date:	3/15/2005	5/20/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/10/2005	3/10/2005
VOCs (µg/L)																			
Vinyl Chloride	EPA 8260B	0.731	0.2		2.9			0.2 U		0.2 UJ		1.2		0.2 UJ		0.2 UJ		2.9	
Chloroethane	EPA 8260B		0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Methylene Chloride	EPA 8260B	190	0.3		0.3 U			0.3 U		0.3 UJ		0.3 U		0.3 UJ		0.3 UJ		0.3 U	
Acetone	EPA 8260B		1.0		1 R			2.7 J		1 R		1 R		1 R		1 R		3.4 J	
Carbon Disulfide	EPA 8260B		0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.6 J		0.2 U	
1,1-Dichloroethene	EPA 8260B	0.382	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
1,1-Dichloroethane	EPA 8260B		0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		9	
trans-1,2-Dichloroethene	EPA 8260B	10000	0.2		1.1			0.2 U		0.2 UJ		0.2		0.2 UJ		0.2 UJ		3.4	
cis-1,2-Dichloroethene	EPA 8260B	1550	0.2		1.2			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.3	
Chloroform	EPA 8260B	56.1	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
1,2-Dichloroethane	EPA 8260B	11.7	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
2-Butanone	EPA 8260B		1.0		1 U			1 U		1 UJ		1 U		1 UJ		1 UJ		1 U	
1,1,1-Trichloroethane	EPA 8260B	206000	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Bromodichloromethane	EPA 8260B	5.52	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Trichloroethene	EPA 8260B	0.302	0.2		1.1			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Benzene	EPA 8260B	4.48	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Methyl isobutyl ketone	EPA 8260B		1.0		1 U			1 U		1 UJ		1 R		1 R		1 R		1 R	
Tetrachloroethene	EPA 8260B	0.822	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Toluene	EPA 8260B	15000	0.2		0.2 U			0.2		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Ethylbenzene	EPA 8260B	2100	0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
Trichlorofluoromethane	EPA 8260B		0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
1,1,2-Trichlorotrifluoroethane	EPA 8260B		0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
m,p-Xylene	EPA 8260B		0.4		0.4 U			0.4 U		0.4 UJ		0.4 U		0.4 UJ		0.4 UJ		0.4 U	
o-Xylene	EPA 8260B		0.2		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ		0.2 U	
SVOCs (µg/L)																			
Phenol	EPA 8270C	275000	1.0			1 U						1 U						1 U	
2-Methylphenol	EPA 8270C	10200	1.0			1 U						1 U						1 U	
4-Methylphenol	EPA 8270C	1030	1.0			1 U						1 U						1 U	
2,4-Dimethylphenol	EPA 8270C	273	1.0			1 U						1 U						1 U	
Naphthalene	EPA 8270C	2440	1.0			1 U						1 U						1 U	
4-Chloro-3-methylphenol	EPA 8270C	18300	5.0			5 U						5 U						5 U	
Di-n-Butylphthalate	EPA 8270C	1440	1.0			1.6 U						1 U						1 U	
Naphthalene	EPA 8270SIM	2440	0.1			0.1 U						0.1 U						0.1 U	
Inorganics (Total) (µg/L)																			
Arsenic	EPA 200.8	0.2	0.2		0.4			6.7		1.7		2.7		3		15		21.9	
Cadmium	EPA 6010B	8.8	2.0		2 U			2 U		2 U		2 U		2 U		2 U		2 U	
Chromium	EPA 6010B		5.0		6			5 U		13		22		5 U		5 U		5 U	
Copper	EPA 200.8	3.1	0.5		2			0.5 U		0.9		4.2		1 U		1 U		2.8	
Lead	EPA 200.8	8.1	1.0		1 U			1 U		1 U		1 U		2 U		2 U		1 U	
Manganese	EPA 6010B	100	1.0		475			367		228		587		279		482		2170	
Mercury	EPA 1631E	0.025	0.025		0.025 U			0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U	
Nickel	EPA 200.8	8.2	0.5		0.7			0.8		3.4		0.7		2		2		0.9	
Silver	EPA 200.8	1.9	0.2		0.2 U			0.2 U		0.2 U		0.2 U		0.5 U		0.5 U		0.2 U	
Vanadium	EPA 6010B	2810	3.0		3 U			3		6		32		4		5		12	
Zinc	EPA 6010B	81	6.0		19			6 U		6 U		6 U		6 U		6 U		6 U	
Inorganics (Dissolved) (µg/L)																			
Arsenic	EPA 200.8	0.2	0.2				0.4		6.8		1.4		2.4		3		16		21.3
Cadmium	EPA 6010B	8.8	2.0				2 U		2 U		2 U		2 U		2 U		2 U		2 U
Chromium	EPA 6010B		5.0				5 U		5 U		11		6		5 U		5 U		5 U
Chromium(VI)	A3500D	50	10.0				11 U						11 UJ						12 J
Copper	EPA 200.8	3.1	0.5				0.7		0.5 U		0.8		0.7		1 U		1 U		0.5 U
Lead	EPA 200.8	8.1	1.0				1 U		1 U		1 U		1 U		2 U		2 U		1 U
Manganese	EPA 6010B	100	1.0				495		389		239		594		273		472		2070
Mercury	EPA 1631E	0.025	0.025				0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.0604
Nickel	EPA 200.8	8.2	0.5				1.9		0.9		3.1		0.6		2		2		0.8
Silver	EPA 200.8	1.9	0.2				0.2 U		0.2 U		0.2 U		0.2 U		0.5 U		0.5 U		0.2 U
Vanadium	EPA 6010B	2810	3.0				3 U		3		6		24		4		5		11
Zinc	EPA 6010B	81	6.0				16		6 U		6 U		6 U		6 U		6 U		6 U
Petroleum Hydrocarbons (µg/L)																			
TPH - Diesel Range	NWTPH-Dx	500	250																
TPH - Motor Oil Range	NWTPH-Dx	500	500																

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-1 Detected Constituents in Groundwater Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 GW Screening Level	Laboratory RL	Sample ID:	SY-PL2-154B	SY-PL2-154B-F	SY-PL2-154C	SY-PL2-154C-F	SY-PL2-155A	SY-PL2-155A-F	SY-PL2-155B	SY-PL2-155B-F	SY-PL2-155C	SY-PL2-155C-F	SY-PL2-156A	SY-PL2-156A-F	SY-PL2-601A	SY-PL2-601A-F	SY-PL2-601B	SY-PL2-601B-F
				Location:	PL2-154B	PL2-154B	PL2-154C	PL2-154C	PL2-155A	PL2-155A	PL2-155B	PL2-155B	PL2-155C	PL2-155C	PL2-156A	PL2-156A	PL2-601A	PL2-601A	PL2-601B	PL2-601B
				Depth (ft bgs):	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	5 - 20	5 - 20	45 - 50	45 - 50
				Sample Date:	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/11/2005	3/11/2005	3/14/2005	3/14/2005	3/15/2005	3/15/2005
VOCs (µg/L)																				
Vinyl Chloride	EPA 8260B	0.731	0.2		0.2 U		0.2 UJ		4.7		0.2 U		0.2 UJ		8.8		1.7		12	
Chloroethane	EPA 8260B		0.2		0.2 U		0.3 J		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
Methylene Chloride	EPA 8260B	190	0.3		0.3 U		0.3 UJ		0.3 U		0.3 U		0.3 UJ		0.3 U		0.3 U		0.3 U	
Acetone	EPA 8260B		1.0		1 R		1 R		8.1 J		5.2 J		7.1 J		1.8 J		3.5 J		3.1 J	
Carbon Disulfide	EPA 8260B		0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		1.7	
1,1-Dichloroethene	EPA 8260B	0.382	0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
1,1-Dichloroethane	EPA 8260B		0.2		0.2 U		0.2 UJ		2.1		0.2 U		0.2 UJ		4		0.2 U		0.2 U	
trans-1,2-Dichloroethene	EPA 8260B	10000	0.2		0.2 U		0.2 UJ		1.4		0.2 U		0.2 UJ		0.4		0.3		0.2 U	
cis-1,2-Dichloroethene	EPA 8260B	1550	0.2		0.2 U		0.2 UJ		1.8		0.2 U		0.2 UJ		0.6		6.3		0.2 U	
Chloroform	EPA 8260B	56.1	0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2	
1,2-Dichloroethane	EPA 8260B	11.7	0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.4	
2-Butanone	EPA 8260B		1.0		1 U		1 UJ		1 U		1 U		1 UJ		1 U		1 U		1 U	
1,1,1-Trichloroethane	EPA 8260B	206000	0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
Bromodichloromethane	EPA 8260B	5.52	0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
Trichloroethene	EPA 8260B	0.302	0.2		0.2 U		0.2 UJ		0.3		0.2 U		0.2 UJ		0.4		5		0.2 U	
Benzene	EPA 8260B	4.48	0.2		0.2 U		0.2 UJ		0.8		0.2 U		0.2 UJ		0.4		0.2 U		0.2 U	
Methyl isobutyl ketone	EPA 8260B		1.0		1 R		1 R		1 R		1 R		1 R		1 UJ		1 UJ		1 U	
Tetrachloroethene	EPA 8260B	0.822	0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
Toluene	EPA 8260B	15000	0.2		0.2 U		0.6 J		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
Ethylbenzene	EPA 8260B	2100	0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
Trichlorofluoromethane	EPA 8260B		0.2		0.6		0.5 J		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
1,1,2-Trichlorotrifluoroethane	EPA 8260B		0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
m,p-Xylene	EPA 8260B		0.4		0.4 U		0.4 UJ		0.4 U		0.4 U		0.4 UJ		0.4 U		0.4 U		0.4 U	
o-Xylene	EPA 8260B		0.2		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U	
SVOCs (µg/L)																				
Phenol	EPA 8270C	275000	1.0						1 U						1 U					
2-Methylphenol	EPA 8270C	10200	1.0						1 U						1 U					
4-Methylphenol	EPA 8270C	1030	1.0						1 U						1 U					
2,4-Dimethylphenol	EPA 8270C	273	1.0						1 U						1 U					
Naphthalene	EPA 8270C	2440	1.0						1 U						1 U					
4-Chloro-3-methylphenol	EPA 8270C	18300	5.0						5 U						5 U					
Di-n-Butylphthalate	EPA 8270C	1440	1.0						1 U						1 U					
Naphthalene	EPA 8270SIM	2440	0.1						0.1 U						0.36 U					
Inorganics (Total) (µg/L)																				
Arsenic	EPA 200.8	0.2	0.2		3.5		2 U		93.4		3.6		8		106		11.8		6.6	
Cadmium	EPA 6010B	8.8	2.0		2 U		2 U		2 U		2 U		4 U		2 U		2 U		2 U	
Chromium	EPA 6010B		5.0		5 U		5 U		5 U		5 U		10 U		5 U		5 U		5 U	
Copper	EPA 200.8	3.1	0.5		0.5 U		2 U		1 U		0.5 U		2 U		1 U		0.6		1.3	
Lead	EPA 200.8	8.1	1.0		1 U		5 U		1 U		1 U		5 U		1 U		1 U		1 U	
Manganese	EPA 6010B	100	1.0		366		338		3640		516		396		4850		2130		412	
Mercury	EPA 1631E	0.025	0.025		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U	
Nickel	EPA 200.8	8.2	0.5		0.9		4		1 U		0.6		7		1 U		2.6		1.5	
Silver	EPA 200.8	1.9	0.2		0.2 U		1 U		0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U	
Vanadium	EPA 6010B	2810	3.0		3 U		5		19		3 U		6 U		10		3 U		3 U	
Zinc	EPA 6010B	81	6.0		6 U		6 U		6 U		6 U		10 U		6 U		6 U		7	
Inorganics (Dissolved) (µg/L)																				
Arsenic	EPA 200.8	0.2	0.2			3.2		2 U		94		3.3		9		98.8		12		6.6
Cadmium	EPA 6010B	8.8	2.0			2 U		2 U		2 U		2 U		4 U		2 U		2 U		2 U
Chromium	EPA 6010B		5.0			5 U		5 U		5 U		5 U		10 U		5 U		5 U		5 U
Chromium(VI)	A3500D	50	10.0							11 UJ						11 UJ				
Copper	EPA 200.8	3.1	0.5			0.5 U		2 U		0.8		0.5 U		2 U		0.5 U		0.5 U		0.5 U
Lead	EPA 200.8	8.1	1.0			1 U		5 U		1 U		1 U		5 U		1 U		1 U		1 U
Manganese	EPA 6010B	100	1.0			374		351		3800		530		427		4820		2400		442
Mercury	EPA 1631E	0.025	0.025			0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U
Nickel	EPA 200.8	8.2	0.5			0.9		4		1		0.5		6		1		2.6		1.5
Silver	EPA 200.8	1.9	0.2			0.2 U		1 U		0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U
Vanadium	EPA 6010B	2810	3.0			3 U		5		18		3 U		6 U		10		3 U		3 U
Zinc	EPA 6010B	81	6.0			6 U		6 U		6 U		6 U		10 U		6 U		6 U		6 U
Petroleum Hydrocarbons (µg/L)																				
TPH - Diesel Range	NWTPH-Dx	500	250																	
TPH - Motor Oil Range	NWTPH-Dx	500	500																	

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-DP-01-15	SY-DP-01-15-F	SY-DP-02-15	SY-DP-02-15-F	SY-DP-03-15	SY-DP-03-15-1	SY-DP-03-15-F	SY-DP-03-15-F-1	SY-DP-04-15	SY-DP-04-15-F	SY-DP-05-15	SY-DP-05-15-F	SY-DP-06-15	SY-DP-06-15-F	SY-DP-07-15	SY-DP-07-15-F	SY-DP-08-15	SY-DP-08-15-F	SY-DP-09-15	SY-DP-09-15-F	SY-DP-10-18
			Location:	DP-SY-01	DP-SY-01	DP-SY-02	DP-SY-02	DP-SY-03	DP-SY-03 Dup.	DP-SY-03	DP-SY-03 Dup.	DP-SY-04	DP-SY-04	DP-SY-05	DP-SY-05	DP-SY-06	DP-SY-06	DP-SY-07	DP-SY-07	DP-SY-08	DP-SY-08	DP-SY-09	DP-SY-09	DP-SY-10
			Depth (ft bgs):	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	18 - 18
			Sample Date:	3/8/2005	3/8/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/8/2005	3/8/2005	3/8/2005
VOCs (µg/L)																								
Chloromethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 UJ		1 UJ		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Bromomethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Vinyl Chloride	EPA 8260B	0.2		0.9		10		7.1	20			28		31		0.2 U		0.2 U		0.2 U		0.2 U		0.6
Chloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Methylene Chloride	EPA 8260B	0.3		0.3 U		0.3 U		0.3 U	2 U			2 U		2 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U
Acetone	EPA 8260B	1.0		1 R		1 R		1 R	5 R			5 U		5 U		1 R		1 R		1 R		1 R		1 R
Carbon Disulfide	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
1,1-Dichloroethene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.4
1,1-Dichloroethane	EPA 8260B	0.2		2.4		8.6		0.5	1.4			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		13
trans-1,2-Dichloroethene	EPA 8260B	0.2		0.2 U		1.4		0.4	1.2			1.4		1.7		0.2 U		0.2 U		0.2 U		0.2 U		3.3
cis-1,2-Dichloroethene	EPA 8260B	0.2		0.2 U		2		0.7	2			3.8		8.3		0.3		0.2 U		0.4		0.2 U		50 ES
Chloroform	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
1,2-Dichloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
2-Butanone	EPA 8260B	1.0		1 U		1 U		1 U	5 U			5 U		5 U		1 U		1 U		1 U		1 U		1 U
1,1,1-Trichloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Carbon Tetrachloride	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Vinyl Acetate	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	5 U			5 U		5 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Bromodichloromethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
1,2-Dichloropropane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
cis-1,3-Dichloropropene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Trichloroethene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		15
Dibromochloromethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
1,1,2-Trichloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Benzene	EPA 8260B	0.2		0.2 U		0.8		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
trans-1,3-Dichloropropene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
2-Chloroethylvinylether	EPA 8260B	0.5		0.5 UJ		0.5 U		0.5 U	5 U			5 UJ		5 UJ		0.5 U		0.5 U		0.5 U		0.5 U		0.5 U
Bromoform	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Methyl isobutyl ketone	EPA 8260B	1.0		1 R		1 U		1 U	5 U			5 U		5 U		1 U		1 U		1 U		1 R		1 R
2-Hexanone	EPA 8260B	1.0		1 U		1 U		1 U	5 U			5 U		5 U		1 U		1 U		1 U		1 U		1 U
Tetrachloroethene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
1,1,2,2-Tetrachloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Toluene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Chlorobenzene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Ethylbenzene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Styrene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
Trichlorofluoromethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
1,1,2-Trichlorotrifluoroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	2 U			2 U		2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
m,p-Xylene	EPA 8260B	0.4		0.4 U		0.4 U		0.4 U	1 U			1 U		1 U		0.4 U		0.4 U		0.4 U		0.4 U		0.4 U
o-Xylene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 U	1 U			1 U		1 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U
SVOCs (µg/L)																								
Phenol	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
bis(2-Chloroethyl)ether	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2-Chlorophenol	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
1,3-Dichlorobenzene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
1,4-Dichlorobenzene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Benzyl Alcohol	EPA 8270C	5.0		5 UJ		5 UJ		5 UJ	5 UJ			5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		
1,2-Dichlorobenzene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2-Methylphenol	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
4-Methylphenol	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
N-Nitroso-Di-N-Propylamine	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
Hexachloroethane	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Nitrobenzene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Isophorone	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2-Nitrophenol	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
2,4-Dimethylphenol	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Benzoic Acid	EPA 8270C	10.0		10 U		10 U		10 U	10 U			10 U		10 U		10 U		10 U		10 U		10 U		
bis(2-Chloroethoxy)methane	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2,4-Dichlorophenol	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
1,2,4-Trichlorobenzene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Naphthalene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
4-Chloroaniline	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
Hexachlorobutadiene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
4-Chloro-3-methylphenol	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
2-Methylnaphthalene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Hexachlorocyclopentadiene	EPA 8270C	5.0		5 UJ		5 UJ		5 UJ	5 UJ			5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		
2,4,6-Trichlorophenol	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
2,4,5-Trichlorophenol	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
2-Chloronaphthalene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2-Nitroaniline	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
Dimethylphthalate	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Acenaphthylene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
3-Nitroaniline	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-DP-01-15	SY-DP-01-15-F	SY-DP-02-15	SY-DP-02-15-F	SY-DP-03-15	SY-DP-03-15-1	SY-DP-03-15-F	SY-DP-03-15-F-1	SY-DP-04-15	SY-DP-04-15-F	SY-DP-05-15	SY-DP-05-15-F	SY-DP-06-15	SY-DP-06-15-F	SY-DP-07-15	SY-DP-07-15-F	SY-DP-08-15	SY-DP-08-15-F	SY-DP-09-15	SY-DP-09-15-F	SY-DP-10-18
			Location:	DP-SY-01	DP-SY-01	DP-SY-02	DP-SY-02	DP-SY-03	DP-SY-03 Dup.	DP-SY-03	DP-SY-03 Dup.	DP-SY-04	DP-SY-04	DP-SY-05	DP-SY-05	DP-SY-06	DP-SY-06	DP-SY-07	DP-SY-07	DP-SY-08	DP-SY-08	DP-SY-09	DP-SY-09	DP-SY-10
			Depth (ft bgs):	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	18 - 18
			Sample Date:	3/8/2005	3/8/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/8/2005	3/8/2005	3/8/2005
SVOCs, continued (µg/L)																								
Acenaphthene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2,4-Dinitrophenol	EPA 8270C	10.0		10 U		10 U		10 U	10 U			10 U		10 U		10 U		10 U		10 U		10 U		
4-Nitrophenol	EPA 8270C	5.0		5 UJ		5 UJ		5 UJ	5 UJ			5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		
Dibenzofuran	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
2,6-Dinitrotoluene	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
2,4-Dinitrotoluene	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
Diethylphthalate	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
4-Chlorophenyl-phenylether	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Fluorene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
4-Nitroaniline	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
4,6-Dinitro-2-Methylphenol	EPA 8270C	10.0		10 UJ		10 UJ		10 UJ	10 UJ			10 UJ		10 UJ		10 UJ		10 UJ		10 UJ		10 UJ		
N-Nitrosodiphenylamine	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
4-Bromophenyl-phenylether	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Hexachlorobenzene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Pentachlorophenol	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
Phenanthrene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Carbazole	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Anthracene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Di-n-Butylphthalate	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Fluoranthene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Pyrene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Butylbenzylphthalate	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
3,3'-Dichlorobenzidine	EPA 8270C	5.0		5 U		5 U		5 U	5 U			5 U		5 U		5 U		5 U		5 U		5 U		
Benzo(a)anthracene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
bis(2-Ethylhexyl)phthalate	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Chrysene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Di-n-octylphthalate	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Benzo(b)fluoranthene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Benzo(k)fluoranthene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Benzo(a)pyrene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Indeno(1,2,3-cd)pyrene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Dibenz(a,h)anthracene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Benzo(g,h,i)perylene	EPA 8270C	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		
Naphthalene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
2-Methylnaphthalene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Acenaphthylene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Acenaphthene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Fluorene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Phenanthrene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Anthracene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Fluoranthene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Pyrene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Benzo(a)anthracene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Chrysene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Benzo(b)fluoranthene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Benzo(k)fluoranthene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Benzo(a)pyrene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Dibenz(a,h)anthracene	EPA 8270SIM	0.1		0.1 UJ		0.1 UJ		0.1 UJ	0.1 UJ			0.1 UJ		0.1 UJ		0.1 UJ		0.1 UJ		0.1 UJ		0.1 UJ		
Benzo(g,h,i)perylene	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
Dibenzofuran	EPA 8270SIM	0.1		0.1 U		0.1 U		0.1 U	0.1 U			0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		0.1 U		
PCBs (µg/L)																								
Aroclor 1016	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Aroclor 1016/1242	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Aroclor 1248	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Aroclor 1254	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Aroclor 1260	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Aroclor 1221	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Aroclor 1232	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Total PCB	EPA 8082	1.0		1 U		1 U		1 U	1 U			1 U		1 U		1 U		1 U		1 U		1 U		1 U
Inorganics (Total) (µg/L)																								
Antimony	EPA 6010B	50.0																						
Arsenic	EPA 200.8	0.2																						
Beryllium	EPA 6010B	1.0																						
Cadmium	EPA 6010B	2.0																						
Chromium	EPA 6010B	5.0																						
Copper	EPA 200.8	0.5																						
Lead	EPA 200.8	1.0																						
Manganese	EPA 6010B	1.0																						
Mercury	EPA 1631E	0.025																						
Nickel	EPA 200.8	0.5																						
Selenium	EPA 6010B	50.0																						
Silver	EPA 200.8	0.2																						
Thallium	EPA 200.8	0.2																						
Thallium	EPA 6010B	50.0																						
Vanadium	EPA 6010B	3.0																						
Zinc	EPA 6010B	6.0																						

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-DP-01-15	SY-DP-01-15-F	SY-DP-02-15	SY-DP-02-15-F	SY-DP-03-15	SY-DP-03-15-1	SY-DP-03-15-F	SY-DP-03-15-F-1	SY-DP-04-15	SY-DP-04-15-F	SY-DP-05-15	SY-DP-05-15-F	SY-DP-06-15	SY-DP-06-15-F	SY-DP-07-15	SY-DP-07-15-F	SY-DP-08-15	SY-DP-08-15-F	SY-DP-09-15	SY-DP-09-15-F	SY-DP-10-18
			Location:	DP-SY-01	DP-SY-01	DP-SY-02	DP-SY-02	DP-SY-03	DP-SY-03 Dup.	DP-SY-03	DP-SY-03 Dup.	DP-SY-04	DP-SY-04	DP-SY-05	DP-SY-05	DP-SY-06	DP-SY-06	DP-SY-07	DP-SY-07	DP-SY-08	DP-SY-08	DP-SY-09	DP-SY-09	DP-SY-10
			Depth (ft bgs):	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	15 - 15	18 - 18
			Sample Date:	3/8/2005	3/8/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/8/2005	3/8/2005	3/8/2005
Inorganics (Dissolved) (µg/L)																								
Antimony	EPA 6010B	50.0			50 U		50 U			50 U	50 U		50 U		50 U		50 U		50 U		50 U		50 U	
Arsenic	EPA 200.8	0.2			36.1		67			82.8	82.1		86.6		75.4		7.6 U		8.2 U		3.4 U		20.8	
Beryllium	EPA 6010B	1.0			1 U		1 U			1 U	1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Cadmium	EPA 6010B	2.0			2 U		2 U			2 U	2 U		2 U		2 U		2 U		2 U		2 U		2 U	
Chromium	EPA 6010B	5.0			5 U		5 U			5 U	5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Chromium(VI)	A3500D	10.0		11 UJ		11 U		11 U	11 U			11 U		11 U										
Copper	EPA 200.8	0.5			0.5 U		0.5 U			0.5 U	0.5 U		0.5 U		0.5 U		0.5 U		0.5 U		0.5 U		0.5 U	
Lead	EPA 200.8	1.0			1 U		1 U			1 U	1 U		1 U		1 U		1 U		1 U		1 U		1 U	
Manganese	EPA 6010B	1.0			1250		4300			2310	2300		6930		4590		852		903		673		1780	
Mercury	EPA 1631E	0.025			0.025 U		0.025 UJ			0.025 UJ	0.025 UJ		0.025 UJ		0.025 UJ		0.025 UJ		0.025 UJ		0.025 UJ		0.025 U	
Nickel	EPA 200.8	0.5			0.6		2.1			1.2	1.2		2.2		1.7		1.1		1.8		1.1		1	
Selenium	EPA 6010B	50.0			50 U		50 U			50 U	50 U		50 U		50 U		50 U		50 U		50 U		50 U	
Silver	EPA 200.8	0.2			0.2 U		0.2 U			0.2 U	0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U	
Thallium	EPA 200.8	0.2																						
Thallium	EPA 6010B	50.0			50 U		50 U			50 U	50 U		50 U		50 U		50 U		50 U		50 U		50 U	
Vanadium	EPA 6010B	3.0			13		7			10	10		6		8		3 U		3		7		6	
Zinc	EPA 6010B	6.0			11		20			6 U	6 U		24		23		8		8		7		15	
Petroleum Hydrocarbons (µg/L)																								
TPH - Gasoline Range	NWTPH-Gx	250																						
TPH - Diesel Range	NWTPH-Dx	250																						
TPH - Motor Oil Range	NWTPH-Dx	500																						

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-DP-10-18	SY-DP-10-18-F	SY-DP-11-17	SY-DP-11-17-F	SY-DP-11-19	SY-DP-12-15	SY-DP-12-15-05202005	SY-DP-12-15-F	SY-PL2-106A	SY-PL2-106A-F	SY-PL2-106B	SY-PL2-106B-F	SY-PL2-106C	SY-PL2-106C-F	SY-PL2-110C	SY-PL2-110C-F	SY-PL2-112A	SY-PL2-112A	SY-PL2-112A-F	SY-PL2-912A
			Location:	DP-SY-10 Re.	DP-SY-10	DP-SY-11	DP-SY-11	DP-SY-11	DP-SY-12	DP-SY-12	DP-SY-12	PL2-106AR	PL2-106AR	PL2-106B	PL2-106B	PL2-106C	PL2-106C	PL2-110C	PL2-110C	PL2-112A	PL2-112A Re.	PL2-112A	PL2-112A Dup.
			Depth (ft bgs):	18 - 18	18 - 18	17 - 17	17 - 17	19 - 19	15 - 15	15 - 15	15 - 15	8 - 16	8 - 16	39 - 49	39 - 49	82.5 - 92.5	82.5 - 92.5	82 - 92	82 - 92	8.5 - 18.5	8.5 - 18.5	8.5 - 18.5	8.5 - 18.5
			Sample Date:	3/8/2005	3/8/2005	3/8/2005	3/8/2005	5/20/2005	3/8/2005	5/20/2005	3/8/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005
VOCs (µg/L)																							
Chloromethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Bromomethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Vinyl Chloride	EPA 8260B	0.2		2 U		0.8			2.5			14		0.2 U		0.2 UJ		0.2 UJ		7.4	10 U		7
Chloroethane	EPA 8260B	0.2		2 U		0.2 U			0.5			0.2 U		0.2 U		0.2 UJ		0.2 UJ		320 ES	590		300 ES
Methylene Chloride	EPA 8260B	0.3		3 U		0.3 U			0.3 U			0.3 U		0.3 U		0.3 UJ		0.3 UJ		0.3	20 U		0.3
Acetone	EPA 8260B	1.0		10 R		1 R			2.2 J			3 J		3.5 J		8.9 J		2.6 J		13 J	50 R		9.6 J
Carbon Disulfide	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
1,1-Dichloroethene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		1.9	10 U		1.7
1,1-Dichloroethane	EPA 8260B	0.2		15		1.9			1.2			0.9		0.2 U		0.2 UJ		0.2 UJ		46 ES	66		44 ES
trans-1,2-Dichloroethene	EPA 8260B	0.2		6.8		0.4			0.2 U			1.5		0.2 U		0.2 UJ		0.2 UJ		0.8	10 U		0.8
cis-1,2-Dichloroethene	EPA 8260B	0.2		83		1.1			0.6			4.2		0.2 U		0.2 UJ		0.2 UJ		15	12		13
Chloroform	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
1,2-Dichloroethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.3		0.4		0.2 UJ		0.2 UJ		0.6	10 U		0.6
2-Butanone	EPA 8260B	1.0		10 U		1 U			1 U			1 U		1 U		1 UJ		1 UJ		8.4	50 U		7.2
1,1,1-Trichloroethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		1.3	10 U		1.3
Carbon Tetrachloride	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Vinyl Acetate	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	50 U		0.2 U
Bromodichloromethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
1,2-Dichloropropane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
cis-1,3-Dichloropropene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Trichloroethene	EPA 8260B	0.2		20		0.2 U			0.2 U			3		0.2 U		0.2 UJ		0.2 UJ		2.6	10 U		2.6
Dibromochloromethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
1,1,2-Trichloroethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Benzene	EPA 8260B	0.2		2 U		0.3			0.2 U			0.3		0.2 U		0.2 UJ		0.2 UJ		1	10 U		1.1
trans-1,3-Dichloropropene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
2-Chloroethylvinylether	EPA 8260B	0.5		5 R		0.5 R			0.5 U			0.5 R		0.5 R		0.5 R		0.5 UJ		0.5 UJ	50 UJ		0.5 UJ
Bromoform	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Methyl isobutyl ketone	EPA 8260B	1.0		10 R		1 R			1 R			1 R		1 R		1 R		1 R		1.3 J	50 U		1.1 J
2-Hexanone	EPA 8260B	1.0		10 UJ		1 UJ			1 U			1 U		1 U		1 UJ		1 UJ		1 U	50 U		1 U
Tetrachloroethene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		3.8	10 U		3.4
1,1,2,2-Tetrachloroethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Toluene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		22 E	18		22 E
Chlorobenzene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Ethylbenzene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 J		1	10 U		1
Styrene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
Trichlorofluoromethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		0.2 U	10 U		0.2 U
1,1,2-Trichlorotrifluoroethane	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		2.2	20 U		2.3
m,p-Xylene	EPA 8260B	0.4		4 U		0.4 U			0.4 U			0.4 U		0.4 U		0.4 UJ		0.4 UJ		3.8	10 U		3.7
o-Xylene	EPA 8260B	0.2		2 U		0.2 U			0.2 U			0.2 U		0.2 U		0.2 UJ		0.2 UJ		1.8	10 U		1.7
SVOCs (µg/L)																							
Phenol	EPA 8270C	1.0																		1 U	60 U		
bis(2-Chloroethyl)ether	EPA 8270C	1.0																		1 U	60 U		
2-Chlorophenol	EPA 8270C	1.0																		1 U	60 U		
1,3-Dichlorobenzene	EPA 8270C	1.0																		1 U	60 U		
1,4-Dichlorobenzene	EPA 8270C	1.0																		1 U	60 U		
Benzyl Alcohol	EPA 8270C	5.0																		5 U	300 U		
1,2-Dichlorobenzene	EPA 8270C	1.0																		1 U	60 U		
2-Methylphenol	EPA 8270C	1.0																		4.2	60 U		
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	1.0																		1 U	60 U		
4-Methylphenol	EPA 8270C	1.0																		35	60 U		
N-Nitroso-Di-N-Propylamine	EPA 8270C	5.0																		5 U	300 U		
Hexachloroethane	EPA 8270C	1.0																		1 U	60 U		
Nitrobenzene	EPA 8270C	1.0																		1 U	60 U		
Isophorone	EPA 8270C	1.0																		1 U	60 U		
2-Nitrophenol	EPA 8270C	5.0																		5 U	300 U		
2,4-Dimethylphenol	EPA 8270C	1.0																		100 E	97		
Benzoic Acid	EPA 8270C	10.0																		10 U	600 U		
bis(2-Chloroethoxy)methane	EPA 8270C	1.0																		1 U	60 U		
2,4-Dichlorophenol	EPA 8270C	5.0																		5 U	300 U		
1,2,4-Trichlorobenzene	EPA 8270C	1.0																		1 U	60 U		
Naphthalene	EPA 8270C	1.0																		1.4	60 U		
4-Chloroaniline	EPA 8270C	5.0																		5 U	300 U		
Hexachlorobutadiene	EPA 8270C	1.0																		1 U	60 U		
4-Chloro-3-methylphenol	EPA 8270C	5.0																		1500 E	2500		
2-Methylnaphthalene	EPA 8270C	1.0																		1 U	60 U		
Hexachlorocyclopentadiene	EPA 8270C	5.0																		5 UJ	300 UJ		
2,4,6-Trichlorophenol	EPA 8270C	5.0																		5 U	300 U		
2,4,5-Trichlorophenol	EPA 8270C	5.0																		5 U	300 U		
2-Chloronaphthalene	EPA 8270C	1.0																		1 U	60 U		
2-Nitroaniline	EPA 8270C	5.0																		5 U	300 U		
Dimethylphthalate	EPA 8270C	1.0																		1 U	60 U		
Acenaphthylene	EPA 8270C	1.0																		1 U	60 U		
3-Nitroaniline	EPA 8270C	5.0																		5 U	300 U		

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-DP-10-18	SY-DP-10-18-F	SY-DP-11-17	SY-DP-11-17-F	SY-DP-11-19	SY-DP-12-15	SY-DP-12-15-05202005	SY-DP-12-15-F	SY-PL2-106A	SY-PL2-106A-F	SY-PL2-106B	SY-PL2-106B-F	SY-PL2-106C	SY-PL2-106C-F	SY-PL2-110C	SY-PL2-110C-F	SY-PL2-112A	SY-PL2-112A	SY-PL2-112A-F	SY-PL2-912A
			Location:	DP-SY-10 Re.	DP-SY-10	DP-SY-11	DP-SY-11	DP-SY-11	DP-SY-12	DP-SY-12	DP-SY-12	PL2-106AR	PL2-106AR	PL2-106B	PL2-106B	PL2-106C	PL2-106C	PL2-110C	PL2-110C	PL2-112A	PL2-112A Re.	PL2-112A	PL2-112A Dup.
			Depth (ft bgs):	18 - 18	18 - 18	17 - 17	17 - 17	19 - 19	15 - 15	15 - 15	15 - 15	8 - 16	8 - 16	39 - 49	39 - 49	82.5 - 92.5	82.5 - 92.5	82 - 92	82 - 92	8.5 - 18.5	8.5 - 18.5	8.5 - 18.5	8.5 - 18.5
			Sample Date:	3/8/2005	3/8/2005	3/8/2005	3/8/2005	5/20/2005	3/8/2005	5/20/2005	3/8/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005
SVOCs, continued (µg/L)																							
Acenaphthene	EPA 8270C	1.0																		1 U	60 U		
2,4-Dinitrophenol	EPA 8270C	10.0																		10 UJ	600 UJ		
4-Nitrophenol	EPA 8270C	5.0																		5 U	300 U		
Dibenzofuran	EPA 8270C	1.0																		1 U	60 U		
2,6-Dinitrotoluene	EPA 8270C	5.0																		5 U	300 U		
2,4-Dinitrotoluene	EPA 8270C	5.0																		5 U	300 U		
Diethylphthalate	EPA 8270C	1.0																		1 U	60 U		
4-Chlorophenyl-phenylether	EPA 8270C	1.0																		1 U	60 U		
Fluorene	EPA 8270C	1.0																		1 U	60 U		
4-Nitroaniline	EPA 8270C	5.0																		5 U	300 U		
4,6-Dinitro-2-Methylphenol	EPA 8270C	10.0																		10 UJ	600 UJ		
N-Nitrosodiphenylamine	EPA 8270C	1.0																		1 U	60 U		
4-Bromophenyl-phenylether	EPA 8270C	1.0																		1 U	60 U		
Hexachlorobenzene	EPA 8270C	1.0																		1 U	60 U		
Pentachlorophenol	EPA 8270C	5.0																		5 U	300 U		
Phenanthrene	EPA 8270C	1.0																		1 U	60 U		
Carbazole	EPA 8270C	1.0																		1 U	60 U		
Anthracene	EPA 8270C	1.0																		1 U	60 U		
Di-n-Butylphthalate	EPA 8270C	1.0																		5.3	60 U		
Fluoranthene	EPA 8270C	1.0																		1 U	60 U		
Pyrene	EPA 8270C	1.0																		1 U	60 U		
Butylbenzylphthalate	EPA 8270C	1.0																		1 U	60 U		
3,3'-Dichlorobenzidine	EPA 8270C	5.0																		5 U	300 U		
Benzo(a)anthracene	EPA 8270C	1.0																		1 U	60 U		
bis(2-Ethylhexyl)phthalate	EPA 8270C	1.0																		1 U	60 U		
Chrysene	EPA 8270C	1.0																		1 U	60 U		
Di-n-octylphthalate	EPA 8270C	1.0																		1 U	60 U		
Benzo(b)fluoranthene	EPA 8270C	1.0																		1 U	60 U		
Benzo(k)fluoranthene	EPA 8270C	1.0																		1 U	60 U		
Benzo(a)pyrene	EPA 8270C	1.0																		1 U	60 U		
Indeno(1,2,3-cd)pyrene	EPA 8270C	1.0																		1 U	60 U		
Dibenz(a,h)anthracene	EPA 8270C	1.0																		1 U	60 U		
Benzo(g,h,i)perylene	EPA 8270C	1.0																		1 U	60 U		
Naphthalene	EPA 8270SIM	0.1																		2 UJ	10 U		
2-Methylnaphthalene	EPA 8270SIM	0.1																		1 U	130 UJ		
Acenaphthylene	EPA 8270SIM	0.1																		1 U	10 U		
Acenaphthene	EPA 8270SIM	0.1																		1 U	10 U		
Fluorene	EPA 8270SIM	0.1																		1 U	10 U		
Phenanthrene	EPA 8270SIM	0.1																		1 U	10 U		
Anthracene	EPA 8270SIM	0.1																		1 U	10 U		
Fluoranthene	EPA 8270SIM	0.1																		1 U	10 U		
Pyrene	EPA 8270SIM	0.1																		1 U	10 U		
Benzo(a)anthracene	EPA 8270SIM	0.1																		1 U	10 U		
Chrysene	EPA 8270SIM	0.1																		1 U	10 U		
Benzo(b)fluoranthene	EPA 8270SIM	0.1																		1 U	10 U		
Benzo(k)fluoranthene	EPA 8270SIM	0.1																		1 U	10 U		
Benzo(a)pyrene	EPA 8270SIM	0.1																		1 U	10 U		
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	0.1																		1 U	10 U		
Dibenz(a,h)anthracene	EPA 8270SIM	0.1																		1 U	10 U		
Benzo(g,h,i)perylene	EPA 8270SIM	0.1																		1 U	10 U		
Dibenzofuran	EPA 8270SIM	0.1																		1 U	10 U		
PCBs (µg/L)																							
Aroclor 1016	EPA 8082	1.0						1 U		1 U										1 U			
Aroclor 1016/1242	EPA 8082	1.0						1 U		1 U										1 U			
Aroclor 1248	EPA 8082	1.0						1 U		1 U										1 U			
Aroclor 1254	EPA 8082	1.0						1 U		1 U										1 U			
Aroclor 1260	EPA 8082	1.0						1 U		1 U										1 U			
Aroclor 1221	EPA 8082	1.0						1 U		1 U										1 U			
Aroclor 1232	EPA 8082	1.0						1 U		1 U										1 U			
Total PCB	EPA 8082	1.0						1 U		1 U										1 U			
Inorganics (Total) (µg/L)																							
Antimony	EPA 6010B	50.0										50 U		50 U		100 U		50 U		50 U			50 U
Arsenic	EPA 200.8	0.2										38.4		0.5		4		4		63.7			60.8
Beryllium	EPA 6010B	1.0										1 U		1 U		2 U		1 U		1 U			1 U
Cadmium	EPA 6010B	2.0										2 U		2 U		4 U		2 U		2 U			2 U
Chromium	EPA 6010B	5.0										5 U		5 U		10 U		5 U		5 U			5 U
Copper	EPA 200.8	0.5										1.7		0.5		2 U		2 U		2.9 U			2.5 U
Lead	EPA 200.8	1.0										1 U		1 U		5 U		5 U		1 U			1 U
Manganese	EPA 6010B	1.0										1310		812		255		274		2100			2100
Mercury	EPA 1631E	0.025										0.025 U		0.025 U		0.025 UJ		0.025 U		0.025 U			0.025 U
Nickel	EPA 200.8	0.5										1.8		0.6		7		5		3.4			3.1
Selenium	EPA 6010B	50.0										50 U		50 U		100 U		50 U		50 U			50 U
Silver	EPA 200.8	0.2										0.2 U		0.2 U		1 U		1 U		0.2 U			0.2 U
Thallium	EPA 200.8	0.2										0.2 U		0.2 U		1 U		1 U		0.2 U			0.2 U
Thallium	EPA 6010B	50.0										50 U		50 U		100 U		50 U		50 U			50 U
Vanadium	EPA 6010B	3.0										8		3 U		6 U		4		9			9
Zinc	EPA 6010B	6.0										6 U		6 U		10 U		6 U		6			7

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-DP-10-18	SY-DP-10-18-F	SY-DP-11-17	SY-DP-11-17-F	SY-DP-11-19	SY-DP-12-15	SY-DP-12-15-05202005	SY-DP-12-15-F	SY-PL2-106A	SY-PL2-106A-F	SY-PL2-106B	SY-PL2-106B-F	SY-PL2-106C	SY-PL2-106C-F	SY-PL2-110C	SY-PL2-110C-F	SY-PL2-112A	SY-PL2-112A	SY-PL2-112A-F	SY-PL2-912A
			Location:	DP-SY-10 Re.	DP-SY-10	DP-SY-11	DP-SY-11	DP-SY-11	DP-SY-12	DP-SY-12	DP-SY-12	PL2-106AR	PL2-106AR	PL2-106B	PL2-106B	PL2-106C	PL2-106C	PL2-110C	PL2-110C	PL2-112A	PL2-112A Re.	PL2-112A	PL2-112A Dup.
			Depth (ft bgs):	18 - 18	18 - 18	17 - 17	17 - 17	19 - 19	15 - 15	15 - 15	15 - 15	8 - 16	8 - 16	39 - 49	39 - 49	82.5 - 92.5	82.5 - 92.5	82 - 92	82 - 92	8.5 - 18.5	8.5 - 18.5	8.5 - 18.5	8.5 - 18.5
			Sample Date:	3/8/2005	3/8/2005	3/8/2005	3/8/2005	5/20/2005	3/8/2005	5/20/2005	3/8/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005
Inorganics (Dissolved) (µg/L)																							
Antimony	EPA 6010B	50.0			50 U		50 U				50 U		50 U		50 U		100 U		100 U			50 U	
Arsenic	EPA 200.8	0.2			9.4		85				15.8		35.1		0.6		4		6			59.1	
Beryllium	EPA 6010B	1.0			1 U		1 U				1 U		1 U		1 U		2 U		2 U			1 U	
Cadmium	EPA 6010B	2.0			2 U		2 U				2 U		2 U		2 U		4 U		4 U			2 U	
Chromium	EPA 6010B	5.0			5 U		8				5 U		5 U		5 U		10 U		10 U			5 U	
Chromium(VI)	A3500D	10.0																					
Copper	EPA 200.8	0.5			0.5 U		0.5 U				0.5 U		1.2		0.5 U		2 U		2 U			0.5 U	
Lead	EPA 200.8	1.0			1 U		1 U				1 U		1 U		1 U		5 U		5 U			1 U	
Manganese	EPA 6010B	1.0			2290		1260				2210		1440		1010		255		280			2170	
Mercury	EPA 1631E	0.025			0.025 U		0.025 U				0.025 U		0.025 U		0.025 U		0.025 U		0.025 U			0.025 U	
Nickel	EPA 200.8	0.5			1.8		4.9				2.5		1.8		1.1		7		5			2.2	
Selenium	EPA 6010B	50.0			50 U		50 U				50 U		50 U		50 U		100 U		100 U			50 U	
Silver	EPA 200.8	0.2			0.2 U		0.2 U				0.2 U		0.2 U		0.2 U		1 U		1 U			0.2 U	
Thallium	EPA 200.8	0.2											0.2 U		0.2 U		1 U		1 U			0.2 U	
Thallium	EPA 6010B	50.0			50 U		50 U				50 U		50 U		50 U		100 U		100 U			50 U	
Vanadium	EPA 6010B	3.0			3 U		37				15		9		3 U		6 U		6 U			4	
Zinc	EPA 6010B	6.0			15		45				21 U		6 U		34		10 U		10 U			6 U	
Petroleum Hydrocarbons (µg/L)																							
TPH - Gasoline Range	NWTPH-Gx	250																		250 U			250 U
TPH - Diesel Range	NWTPH-Dx	250																		9800 E	8900		9200 E
TPH - Motor Oil Range	NWTPH-Dx	500																		1300	2500 U		1200

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-912A	SY-PL2-912A-F	SY-PL2-112B	SY-PL2-112B-F	SY-PL2-113A	SY-PL2-113A	SY-PL2-113A-F	SY-PL2-115A	SY-PL2-115A	SY-PL2-115A	SY-PL2-115A-F	SY-PL2-116A	SY-PL2-116A-F	SY-PL2-117A	SY-PL2-117A	SY-PL2-117A-F	SY-PL2-120A	SY-PL2-120A-F	SY-PL2-151A
			Location:	PL2-112A Dup. Re.	PL2-112A Dup.	PL2-112B	PL2-112B	PL2-113A	PL2-113A Re.	PL2-113A	PL2-115A	PL2-115A Re.	PL2-115A Re. Ex.	PL2-115A	PL2-116A	PL2-116A	PL2-117A	PL2-117A Re.	PL2-117A	PL2-120A	PL2-120A	PL2-151A
			Depth (ft bgs):	8.5 - 18.5	8.5 - 18.5	40 - 50	40 - 50	8 - 18	8 - 18	8 - 18	7.5 - 17.7	7.5 - 17.7	7.5 - 17.7	7.5 - 17.7	7.5 - 17.8	7.5 - 17.8	7.9 - 17.9	7.9 - 17.9	7.9 - 17.9	8 - 18	8 - 18	6 - 16
			Sample Date:	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/10/2005	3/10/2005	3/11/2005
VOCs (µg/L)																						
Chloromethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Bromomethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Vinyl Chloride	EPA 8260B	0.2		10 U		0.2 U		5.3	5.1		5.2	4.8			2.8		4.3			0.2 U		0.2 U
Chloroethane	EPA 8260B	0.2		620		0.2 U		0.5	1 U		0.2 U	1 U			0.2 U		0.4			0.2 U		0.2 U
Methylene Chloride	EPA 8260B	0.3		20 U		0.3 U		0.3 U	2 U		0.3 U	2 U			0.3 U		0.3 U			0.3 U		0.3 U
Acetone	EPA 8260B	1.0		50 R		1 R		2.1 J	5 R		2.3 J	5 R			2.6 J		3.1 J			1 R		1.8 J
Carbon Disulfide	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
1,1-Dichloroethene	EPA 8260B	0.2		10 U		0.2 U		1.3	1.1		0.2	1 U			0.2 U		0.2 U			0.2 U		0.2 U
1,1-Dichloroethane	EPA 8260B	0.2		67		0.2 U		30 E	32		1.2	1.1			0.6		13			0.2 U		0.2 U
trans-1,2-Dichloroethene	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.3	1 U			0.2 U		0.2 U			0.2 U		0.2 U
cis-1,2-Dichloroethene	EPA 8260B	0.2		13		0.2 U		3.9	3.7		46 E	49			1.5		4.9			0.2		2.8
Chloroform	EPA 8260B	0.2		10 U		0.2 U		0.2	1 U		0.2	1 U			0.2 U		0.2 U			0.2 U		0.2 U
1,2-Dichloroethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
2-Butanone	EPA 8260B	1.0		50 U		1 U		1 U	5 U		1 U	5 U			1 U		1 U			1 U		1 U
1,1,1-Trichloroethane	EPA 8260B	0.2		10 U		0.2 U		0.3	1 U		0.7	1 U			0.2 U		1			0.2 U		0.2 U
Carbon Tetrachloride	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Vinyl Acetate	EPA 8260B	0.2		50 U		0.2 U		0.2 U	5 U		0.2 U	5 U			0.2 U		0.2 U			0.2 U		0.2 U
Bromodichloromethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
1,2-Dichloropropane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
cis-1,3-Dichloropropene	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Trichloroethene	EPA 8260B	0.2		10 U		0.2 U		17 E	13		74 ES	110			0.2 U		2.4			0.2 U		6.4
Dibromochloromethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
1,1,2-Trichloroethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Benzene	EPA 8260B	0.2		10 U		0.2 U		5.3	4.6		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
trans-1,3-Dichloropropene	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
2-Chloroethylvinylether	EPA 8260B	0.5		50 UJ		0.5 R		0.5 UJ	5 U		0.5 UJ	5 U			0.5 UJ		0.5 UJ			0.5 R		0.5 R
Bromoform	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Methyl isobutyl ketone	EPA 8260B	1.0		50 U		1 U		1 R	5 U		1 U	5 U			1 R		1 R			1 R		1 UJ
2-Hexanone	EPA 8260B	1.0		50 U		1 U		1 U	5 U		1 U	5 U			1 U		1 U			1 UJ		1 UJ
Tetrachloroethene	EPA 8260B	0.2		10 U		0.2 U		1.2	1 U		0.2	1 U			0.2 U		0.2 U			0.2 U		0.2 U
1,1,2,2-Tetrachloroethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Toluene	EPA 8260B	0.2		18		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Chlorobenzene	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Ethylbenzene	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Styrene	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
Trichlorofluoromethane	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
1,1,2-Trichlorotrifluoroethane	EPA 8260B	0.2		20 U		0.2 U		0.3	2 U		0.2 U	2 U			0.2 U		0.2 U			0.2 U		0.2 U
m,p-Xylene	EPA 8260B	0.4		10 U		0.4 U		0.4 U	1 U		0.4 U	1 U			0.4 U		0.4 U			0.4 U		0.4 U
o-Xylene	EPA 8260B	0.2		10 U		0.2 U		0.2 U	1 U		0.2 U	1 U			0.2 U		0.2 U			0.2 U		0.2 U
SVOCs (µg/L)																						
Phenol	EPA 8270C	1.0						1 U			1 U				1 U		3.2	30 U		1 U		
bis(2-Chloroethyl)ether	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
2-Chlorophenol	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
1,3-Dichlorobenzene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
1,4-Dichlorobenzene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Benzyl Alcohol	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
1,2-Dichlorobenzene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
2-Methylphenol	EPA 8270C	1.0						1 U			1 U				1 U		3.6	30 U		1 U		
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
4-Methylphenol	EPA 8270C	1.0						1 U			1 U				1 U		32	30 U		1 U		
N-Nitroso-Di-N-Propylamine	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
Hexachloroethane	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Nitrobenzene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Isophorone	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
2-Nitrophenol	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 UJ		
2,4-Dimethylphenol	EPA 8270C	1.0						1 U			1 U				1 U		77	70		1 U		
Benzoic Acid	EPA 8270C	10.0						10 U			10 U				10 U		10 U	300 U		10 U		
bis(2-Chloroethoxy)methane	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
2,4-Dichlorophenol	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
1,2,4-Trichlorobenzene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Naphthalene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
4-Chloroaniline	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
Hexachlorobutadiene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
4-Chloro-3-methylphenol	EPA 8270C	5.0						5 U			5 U				5 U		1000 E	1600		5 U		
2-Methylnaphthalene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Hexachlorocyclopentadiene	EPA 8270C	5.0						5 UJ			5 UJ				5 UJ		5 UJ	150 UJ		5 UJ		
2,4,6-Trichlorophenol	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
2,4,5-Trichlorophenol	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
2-Chloronaphthalene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
2-Nitroaniline	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
Dimethylphthalate	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Acenaphthylene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
3-Nitroaniline	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-912A	SY-PL2-912A-F	SY-PL2-112B	SY-PL2-112B-F	SY-PL2-113A	SY-PL2-113A	SY-PL2-113A-F	SY-PL2-115A	SY-PL2-115A	SY-PL2-115A	SY-PL2-115A-F	SY-PL2-116A	SY-PL2-116A-F	SY-PL2-117A	SY-PL2-117A	SY-PL2-117A-F	SY-PL2-120A	SY-PL2-120A-F	SY-PL2-151A
			Location:	PL2-112A Dup. Re.	PL2-112A Dup.	PL2-112B	PL2-112B	PL2-113A	PL2-113A Re.	PL2-113A	PL2-115A	PL2-115A Re.	PL2-115A Re. Ex.	PL2-115A	PL2-116A	PL2-116A	PL2-117A	PL2-117A Re.	PL2-117A	PL2-120A	PL2-120A	PL2-151A
			Depth (ft bgs):	8.5 - 18.5	8.5 - 18.5	40 - 50	40 - 50	8 - 18	8 - 18	8 - 18	7.5 - 17.7	7.5 - 17.7	7.5 - 17.7	7.5 - 17.7	7.5 - 17.8	7.5 - 17.8	7.9 - 17.9	7.9 - 17.9	7.9 - 17.9	8 - 18	8 - 18	6 - 16
			Sample Date:	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/10/2005	3/10/2005	3/11/2005
SVOCs, continued (µg/L)																						
Acenaphthene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
2,4-Dinitrophenol	EPA 8270C	10.0						10 UJ			10 UJ				10 UJ		10 UJ	300 UJ		10 U		
4-Nitrophenol	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 UJ		5 U		
Dibenzofuran	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
2,6-Dinitrotoluene	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
2,4-Dinitrotoluene	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
Diethylphthalate	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
4-Chlorophenyl-phenylether	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Fluorene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
4-Nitroaniline	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
4,6-Dinitro-2-Methylphenol	EPA 8270C	10.0						10 UJ			10 U				10 UJ		10 UJ	300 UJ		10 UJ		
N-Nitrosodiphenylamine	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
4-Bromophenyl-phenylether	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Hexachlorobenzene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Pentachlorophenol	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
Phenanthrene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Carbazole	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Anthracene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Di-n-Butylphthalate	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Fluoranthene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Pyrene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Butylbenzylphthalate	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
3,3'-Dichlorobenzidine	EPA 8270C	5.0						5 U			5 U				5 U		5 U	150 U		5 U		
Benzo(a)anthracene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
bis(2-Ethylhexyl)phthalate	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Chrysene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Di-n-octylphthalate	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Benzo(b)fluoranthene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Benzo(k)fluoranthene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Benzo(a)pyrene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Indeno(1,2,3-cd)pyrene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Dibenz(a,h)anthracene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Benzo(g,h,i)perylene	EPA 8270C	1.0						1 U			1 U				1 U		1 U	30 U		1 U		
Naphthalene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1.3 UJ	10 U		0.1 U		
2-Methylnaphthalene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	110 UJ		0.1 U		
Acenaphthylene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Acenaphthene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Fluorene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Phenanthrene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Anthracene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Fluoranthene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Pyrene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Benzo(a)anthracene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Chrysene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Benzo(b)fluoranthene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Benzo(k)fluoranthene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Benzo(a)pyrene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Dibenz(a,h)anthracene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Benzo(g,h,i)perylene	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
Dibenzofuran	EPA 8270SIM	0.1						0.1 U			0.1 U				0.1 U		1 U	10 U		0.1 U		
PCBs (µg/L)																						
Aroclor 1016	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Aroclor 1016/1242	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Aroclor 1248	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Aroclor 1254	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Aroclor 1260	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Aroclor 1221	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Aroclor 1232	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Total PCB	EPA 8082	1.0						1 U			1 U				1 U		1 U			1 U		
Inorganics (Total) (µg/L)																						
Antimony	EPA 6010B	50.0				50 U		50 U			50 U				50 U		50 U			50 U		50 U
Arsenic	EPA 200.8	0.2				0.8		7.1			0.8				22.4		55.3			46.7		5
Beryllium	EPA 6010B	1.0				1 U		1 U			1 U				1 U		1 U			1 U		1 U
Cadmium	EPA 6010B	2.0				2 U		2 U			2 U				2 U		2			2 U		2 U
Chromium	EPA 6010B	5.0				5 U		5 U			21				5 U		160			5 U		5 U
Copper	EPA 200.8	0.5				8.4 U		1.8 U			4.3				0.5 U		52.4			3		1 U
Lead	EPA 200.8	1.0				1 U		1 U			1 U				1 U		12			2 U		1 U
Manganese	EPA 6010B	1.0				496		580			96				3830		1780			937		811
Mercury	EPA 1631E	0.025				0.025 U		0.025 U			0.025 U				0.025 U		0.0332			0.025 U		0.025 U
Nickel	EPA 200.8	0.5				9.5		4.3			1.5				0.5		27.2			3		3
Selenium	EPA 6010B	50.0				50 U		50 U			50 U				50 U		50 U			50 U		50 U
Silver	EPA 200.8	0.2				0.2 U		0.2 U			0.2 U				0.2 U		0.2			0.5 U		0.2 U
Thallium	EPA 200.8	0.2				0.2 U		0.2 U			0.2 U				0.2 U		0.2 U			0.5 U		0.2 U
Thallium	EPA 6010B	50.0				50 U		50 U			50 U				50 U		50 U			50 U		50 U
Vanadium	EPA 6010B	3.0				5		7			3				3 U		104			6		3 U
Zinc	EPA 6010B	6.0				29		6 U			6 U				6 U		215			6 U		6 U

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-912A	SY-PL2-912A-F	SY-PL2-112B	SY-PL2-112B-F	SY-PL2-113A	SY-PL2-113A	SY-PL2-113A-F	SY-PL2-115A	SY-PL2-115A	SY-PL2-115A	SY-PL2-115A-F	SY-PL2-116A	SY-PL2-116A-F	SY-PL2-117A	SY-PL2-117A	SY-PL2-117A-F	SY-PL2-120A	SY-PL2-120A-F	SY-PL2-151A
			Location:	PL2-112A Dup. Re.	PL2-112A Dup.	PL2-112B	PL2-112B	PL2-113A	PL2-113A Re.	PL2-113A	PL2-115A	PL2-115A Re.	PL2-115A Re. Ex.	PL2-115A	PL2-116A	PL2-116A	PL2-117A	PL2-117A Re.	PL2-117A	PL2-120A	PL2-120A	PL2-151A
			Depth (ft bgs):	8.5 - 18.5	8.5 - 18.5	40 - 50	40 - 50	8 - 18	8 - 18	8 - 18	7.5 - 17.7	7.5 - 17.7	7.5 - 17.7	7.5 - 17.7	7.5 - 17.8	7.5 - 17.8	7.9 - 17.9	7.9 - 17.9	7.9 - 17.9	8 - 18	8 - 18	6 - 16
			Sample Date:	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/16/2005	3/10/2005	3/10/2005	3/11/2005
Inorganics (Dissolved) (µg/L)																						
Antimony	EPA 6010B	50.0			50 U		50 U			50 U				50 U		50 U			50 U		50 U	
Arsenic	EPA 200.8	0.2			58.6		0.7			8.9				0.2 U		22.2			40.3		3.8	
Beryllium	EPA 6010B	1.0			1 U		1 U			1 U				1 U		1 U			1 U		1 U	
Cadmium	EPA 6010B	2.0			2 U		2 U			2 U				2 U		2 U			2 U		2 U	
Chromium	EPA 6010B	5.0			5 U		5 U			5 U				6		5 U			5 U		5 U	
Chromium(VI)	A3500D	10.0																			11 UJ	
Copper	EPA 200.8	0.5			0.5 U		0.5 U			0.5 U				1.3		0.5 U			0.5 U		0.6	
Lead	EPA 200.8	1.0			1 U		1 U			1 U				1 U		1 U			1 U		1 U	
Manganese	EPA 6010B	1.0			2120		540			612				90		4200			1520		893	
Mercury	EPA 1631E	0.025			0.025 U		0.025 U			0.025 U				0.025 U		0.025 U			0.025 U		0.025 U	
Nickel	EPA 200.8	0.5			2		2.4			3.8				1.2		0.6			3.9		1.3	
Selenium	EPA 6010B	50.0			50 U		50 U			50 U				50 U		50 U			50 U		50 U	
Silver	EPA 200.8	0.2			0.2 U		0.2 U			0.2 U				0.2 U		0.2 U			0.2 U		0.2 U	
Thallium	EPA 200.8	0.2			0.2 U		0.2 U			0.2 U				0.2 U		0.2 U			0.2 U		0.2 U	
Thallium	EPA 6010B	50.0			50 U		50 U			50 U				50 U		50 U			50 U		50 U	
Vanadium	EPA 6010B	3.0			4		3 U			6				3 U		3 U			3		3 U	
Zinc	EPA 6010B	6.0			6 U		6 U			6 U				6 U		6 U			18		6 U	
Petroleum Hydrocarbons (µg/L)																						
TPH - Gasoline Range	NWTPH-Gx	250						250 U			250 UJ		250 UJ		250 U		250 U					
TPH - Diesel Range	NWTPH-Dx	250		8300				280			250 U				250 U		380					
TPH - Motor Oil Range	NWTPH-Dx	500		2500 U				500 U			500 U				500 U		500 U					

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-151A-05202005	SY-PL2-151A-F	SY-PL2-151B	SY-PL2-151B-F	SY-PL2-151C	SY-PL2-151C-F	SY-PL2-152A	SY-PL2-152A-05202005	SY-PL2-152A-F	SY-PL2-152B	SY-PL2-152B-F	SY-PL2-152C	SY-PL2-152C-F	SY-PL2-153A	SY-PL2-153A-F	SY-PL2-153B	SY-PL2-153B-F	SY-PL2-153C	SY-PL2-153C-F
			Location:	PL2-151A	PL2-151A	PL2-151B	PL2-151B	PL2-151C	PL2-151C	PL2-152A	PL2-152A	PL2-152A	PL2-152B	PL2-152B	PL2-152C	PL2-152C	PL2-153A	PL2-153A	PL2-153B	PL2-153B	PL2-153C	PL2-153C
			Depth (ft bgs):	6 - 16	6 - 16	45 - 50	45 - 50	75 - 80	75 - 80	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85
			Sample Date:	5/20/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/15/2005	5/20/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005
VOCs (µg/L)																						
Chloromethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Bromomethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Vinyl Chloride	EPA 8260B	0.2				0.2 U		0.2 U		2.9			0.2 U		0.2 UJ		1.2		0.2 UJ		0.2 UJ	
Chloroethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Methylene Chloride	EPA 8260B	0.3				0.3 U		0.3 U		0.3 U			0.3 U		0.3 UJ		0.3 U		0.3 UJ		0.3 UJ	
Acetone	EPA 8260B	1.0				5.4 J		1 R		1 R			2.7 J		1 R		1 R		1 R		1 R	
Carbon Disulfide	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.6 J	
1,1-Dichloroethene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
1,1-Dichloroethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
trans-1,2-Dichloroethene	EPA 8260B	0.2				0.2 U		0.2 U		1.1			0.2 U		0.2 UJ		0.2		0.2 UJ		0.2 UJ	
cis-1,2-Dichloroethene	EPA 8260B	0.2				0.2 U		0.2 U		1.2			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Chloroform	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
1,2-Dichloroethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
2-Butanone	EPA 8260B	1.0				1 U		1 U		1 U			1 U		1 UJ		1 U		1 UJ		1 UJ	
1,1,1-Trichloroethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Carbon Tetrachloride	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Vinyl Acetate	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Bromodichloromethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
1,2-Dichloropropane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
cis-1,3-Dichloropropene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Trichloroethene	EPA 8260B	0.2				0.2 U		0.2 U		1.1			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Dibromochloromethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
1,1,2-Trichloroethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Benzene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
trans-1,3-Dichloropropene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
2-Chloroethylvinylether	EPA 8260B	0.5				0.5 R		0.5 R		0.5 R			0.5 UJ		0.5 UJ		0.5 R		0.5 R		0.5 R	
Bromoform	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Methyl isobutyl ketone	EPA 8260B	1.0				1 UJ		1 UJ		1 U			1 U		1 UJ		1 R		1 R		1 R	
2-Hexanone	EPA 8260B	1.0				1 UJ		1 UJ		1 U			1 U		1 UJ		1 UJ		1 UJ		1 UJ	
Tetrachloroethene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
1,1,2,2-Tetrachloroethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Toluene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Chlorobenzene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Ethylbenzene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Styrene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
Trichlorofluoromethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
1,1,2-Trichlorotrifluoroethane	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
m,p-Xylene	EPA 8260B	0.4				0.4 U		0.4 U		0.4 U			0.4 U		0.4 UJ		0.4 U		0.4 UJ		0.4 UJ	
o-Xylene	EPA 8260B	0.2				0.2 U		0.2 U		0.2 U			0.2 U		0.2 UJ		0.2 U		0.2 UJ		0.2 UJ	
SVOCs (µg/L)																						
Phenol	EPA 8270C	1.0		1 U							1 U						1 U					
bis(2-Chloroethyl)ether	EPA 8270C	1.0		1 U							1 U						1 U					
2-Chlorophenol	EPA 8270C	1.0		1 U							1 U						1 U					
1,3-Dichlorobenzene	EPA 8270C	1.0		1 U							1 U						1 U					
1,4-Dichlorobenzene	EPA 8270C	1.0		1 U							1 U						1 U					
Benzyl Alcohol	EPA 8270C	5.0		5 U							5 U						5 U					
1,2-Dichlorobenzene	EPA 8270C	1.0		1 U							1 U						1 U					
2-Methylphenol	EPA 8270C	1.0		1 U							1 U						1 U					
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	1.0		1 U							1 U						1 U					
4-Methylphenol	EPA 8270C	1.0		1 U							1 U						1 U					
N-Nitroso-Di-N-Propylamine	EPA 8270C	5.0		5 U							5 U						5 U					
Hexachloroethane	EPA 8270C	1.0		1 U							1 U						1 U					
Nitrobenzene	EPA 8270C	1.0		1 U							1 U						1 U					
Isophorone	EPA 8270C	1.0		1 U							1 U						1 U					
2-Nitrophenol	EPA 8270C	5.0		5 U							5 U						5 U					
2,4-Dimethylphenol	EPA 8270C	1.0		1 U							1 U						1 U					
Benzoic Acid	EPA 8270C	10.0		10 UJ							10 UJ						10 U					
bis(2-Chloroethoxy)methane	EPA 8270C	1.0		1 U							1 U						1 U					
2,4-Dichlorophenol	EPA 8270C	5.0		5 U							5 U						5 U					
1,2,4-Trichlorobenzene	EPA 8270C	1.0		1 U							1 U						1 U					
Naphthalene	EPA 8270C	1.0		1 U							1 U						1 U					
4-Chloroaniline	EPA 8270C	5.0		5 U							5 U						5 U					
Hexachlorobutadiene	EPA 8270C	1.0		1 U							1 U						1 U					
4-Chloro-3-methylphenol	EPA 8270C	5.0		5 U							5 U						5 U					
2-Methylnaphthalene	EPA 8270C	1.0		1 U							1 U						1 U					
Hexachlorocyclopentadiene	EPA 8270C	5.0		5 UJ							5 UJ						5 UJ					
2,4,6-Trichlorophenol	EPA 8270C	5.0		5 U							5 U						5 U					
2,4,5-Trichlorophenol	EPA 8270C	5.0		5 U							5 U						5 U					
2-Chloronaphthalene	EPA 8270C	1.0		1 U							1 U						1 U					
2-Nitroaniline	EPA 8270C	5.0		5 U							5 U						5 U					
Dimethylphthalate	EPA 8270C	1.0		1 U							1 U						1 U					
Acenaphthylene	EPA 8270C	1.0		1 U							1 U						1 U					
3-Nitroaniline	EPA 8270C	5.0		5 U							5 U						5 U					

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-151A-05202005	SY-PL2-151A-F	SY-PL2-151B	SY-PL2-151B-F	SY-PL2-151C	SY-PL2-151C-F	SY-PL2-152A	SY-PL2-152A-05202005	SY-PL2-152A-F	SY-PL2-152B	SY-PL2-152B-F	SY-PL2-152C	SY-PL2-152C-F	SY-PL2-153A	SY-PL2-153A-F	SY-PL2-153B	SY-PL2-153B-F	SY-PL2-153C	SY-PL2-153C-F
			Location:	PL2-151A	PL2-151A	PL2-151B	PL2-151B	PL2-151C	PL2-151C	PL2-152A	PL2-152A	PL2-152A	PL2-152B	PL2-152B	PL2-152C	PL2-152C	PL2-153A	PL2-153A	PL2-153B	PL2-153B	PL2-153C	PL2-153C
			Depth (ft bgs):	6 - 16	6 - 16	45 - 50	45 - 50	75 - 80	75 - 80	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85
			Sample Date:	5/20/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/15/2005	5/20/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005
SVOCs, continued (µg/L)																						
Acenaphthene	EPA 8270C	1.0		1 U							1 U						1 U					
2,4-Dinitrophenol	EPA 8270C	10.0		10 UJ							10 UJ						10 U					
4-Nitrophenol	EPA 8270C	5.0		5 UJ							5 UJ						5 UJ					
Dibenzofuran	EPA 8270C	1.0		1 U							1 U						1 U					
2,6-Dinitrotoluene	EPA 8270C	5.0		5 U							5 U						5 U					
2,4-Dinitrotoluene	EPA 8270C	5.0		5 U							5 U						5 U					
Diethylphthalate	EPA 8270C	1.0		1 U							1 U						1 U					
4-Chlorophenyl-phenylether	EPA 8270C	1.0		1 U							1 U						1 U					
Fluorene	EPA 8270C	1.0		1 U							1 U						1 U					
4-Nitroaniline	EPA 8270C	5.0		5 U							5 U						5 U					
4,6-Dinitro-2-Methylphenol	EPA 8270C	10.0		10 U							10 U						10 U					
N-Nitrosodiphenylamine	EPA 8270C	1.0		1 U							1 U						1 U					
4-Bromophenyl-phenylether	EPA 8270C	1.0		1 U							1 U						1 U					
Hexachlorobenzene	EPA 8270C	1.0		1 U							1 U						1 U					
Pentachlorophenol	EPA 8270C	5.0		5 U							5 U						5 U					
Phenanthrene	EPA 8270C	1.0		1 U							1 U						1 U					
Carbazole	EPA 8270C	1.0		1 U							1 U						1 U					
Anthracene	EPA 8270C	1.0		1 U							1 U						1 U					
Di-n-Butylphthalate	EPA 8270C	1.0		1.4 U							1.6 U						1 U					
Fluoranthene	EPA 8270C	1.0		1 U							1 U						1 U					
Pyrene	EPA 8270C	1.0		1 U							1 U						1 U					
Butylbenzylphthalate	EPA 8270C	1.0		1 U							1 U						1 U					
3,3'-Dichlorobenzidine	EPA 8270C	5.0		5 U							5 U						5 U					
Benzo(a)anthracene	EPA 8270C	1.0		1 U							1 U						1 U					
bis(2-Ethylhexyl)phthalate	EPA 8270C	1.0		1 U							1 U						1 U					
Chrysene	EPA 8270C	1.0		1 U							1 U						1 U					
Di-n-octylphthalate	EPA 8270C	1.0		1 U							1 U						1 U					
Benzo(b)fluoranthene	EPA 8270C	1.0		1 U							1 U						1 U					
Benzo(k)fluoranthene	EPA 8270C	1.0		1 U							1 U						1 U					
Benzo(a)pyrene	EPA 8270C	1.0		1 U							1 U						1 U					
Indeno(1,2,3-cd)pyrene	EPA 8270C	1.0		1 UJ							1 UJ						1 U					
Dibenz(a,h)anthracene	EPA 8270C	1.0		1 UJ							1 UJ						1 U					
Benzo(g,h,i)perylene	EPA 8270C	1.0		1 UJ							1 UJ						1 U					
Naphthalene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
2-Methylnaphthalene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Acenaphthylene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Acenaphthene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Fluorene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Phenanthrene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Anthracene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Fluoranthene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Pyrene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Benzo(a)anthracene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Chrysene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Benzo(b)fluoranthene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Benzo(k)fluoranthene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Benzo(a)pyrene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Dibenz(a,h)anthracene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Benzo(g,h,i)perylene	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
Dibenzofuran	EPA 8270SIM	0.1		0.1 U							0.1 U						0.1 U					
PCBs (µg/L)																						
Aroclor 1016	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Aroclor 1016/1242	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Aroclor 1248	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Aroclor 1254	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Aroclor 1260	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Aroclor 1221	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Aroclor 1232	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Total PCB	EPA 8082	1.0		1 U						1 U			1 U				1 U					
Inorganics (Total) (µg/L)																						
Antimony	EPA 6010B	50.0				50 U	50 U	50 U					50 U		50 U		50 U		50 U		50 U	
Arsenic	EPA 200.8	0.2				4	6	0.4					6.7		1.7		2.7		3		15	
Beryllium	EPA 6010B	1.0				1 U	1 U	1 U					1 U		1 U		1 U		1 U		1 U	
Cadmium	EPA 6010B	2.0				2 U	2 U	2 U					2 U		2 U		2 U		2 U		2 U	
Chromium	EPA 6010B	5.0				5 U	5 U	6					5 U		13		22		5 U		5 U	
Copper	EPA 200.8	0.5				1 U	2 U	2					0.5 U		0.9		4.2		1 U		1 U	
Lead	EPA 200.8	1.0				1 U	5 U	1 U					1 U		1 U		1 U		2 U		2 U	
Manganese	EPA 6010B	1.0				839	764	475					367		228		587		279		482	
Mercury	EPA 1631E	0.025				0.025 U	0.025 U	0.025 U					0.025 U		0.025 U		0.025 U		0.025 U		0.025 U	
Nickel	EPA 200.8	0.5				1 U	3	0.7					0.8		3.4		0.7		2		2	
Selenium	EPA 6010B	50.0				50 U	50 U	50 U					50 U		50 U		50 U		50 U		50 U	
Silver	EPA 200.8	0.2				0.2 U	1 U	0.2 U					0.2 U		0.2 U		0.2 U		0.5 U		0.5 U	
Thallium	EPA 200.8	0.2				0.2 U	1 U	0.2 U					0.2 U		0.2 U		0.2 U		0.5 U		0.5 U	
Thallium	EPA 6010B	50.0				50 U	50 U	50 U					50 U		50 U		50 U		50 U		50 U	
Vanadium	EPA 6010B	3.0				3 U	5	3 U					3		6		32		4		5	
Zinc	EPA 6010B	6.0				6 U	6 U	19					6 U		6 U		6 U		6 U		6 U	

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-151A-05202005	SY-PL2-151A-F	SY-PL2-151B	SY-PL2-151B-F	SY-PL2-151C	SY-PL2-151C-F	SY-PL2-152A	SY-PL2-152A-05202005	SY-PL2-152A-F	SY-PL2-152B	SY-PL2-152B-F	SY-PL2-152C	SY-PL2-152C-F	SY-PL2-153A	SY-PL2-153A-F	SY-PL2-153B	SY-PL2-153B-F	SY-PL2-153C	SY-PL2-153C-F
			Location:	PL2-151A	PL2-151A	PL2-151B	PL2-151B	PL2-151C	PL2-151C	PL2-152A	PL2-152A	PL2-152A	PL2-152B	PL2-152B	PL2-152C	PL2-152C	PL2-153A	PL2-153A	PL2-153B	PL2-153B	PL2-153C	PL2-153C
			Depth (ft bgs):	6 - 16	6 - 16	45 - 50	45 - 50	75 - 80	75 - 80	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85
			Sample Date:	5/20/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/15/2005	5/20/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005	3/9/2005
Inorganics (Dissolved) (µg/L)																						
Antimony	EPA 6010B	50.0			50 U		50 U		50 U			50 U		50 U		50 U		50 U		50 U		50 U
Arsenic	EPA 200.8	0.2			4.5		4.4		5			0.4		6.8		1.4		2.4		3		16
Beryllium	EPA 6010B	1.0			1 U		1 U		1 U			1 U		1 U		1 U		1 U		1 U		1 U
Cadmium	EPA 6010B	2.0			2 U		2 U		2 U			2 U		2 U		2 U		2 U		2 U		2 U
Chromium	EPA 6010B	5.0			5 U		5 U		5 U			5 U		5 U		11		6		5 U		5 U
Chromium(VI)	A3500D	10.0			11 UJ							11 U						11 UJ				
Copper	EPA 200.8	0.5			1		0.5 U		2 U			0.7		0.5 U		0.8		0.7		1 U		1 U
Lead	EPA 200.8	1.0			1 U		1 U		5 U			1 U		1 U		1 U		1 U		2 U		2 U
Manganese	EPA 6010B	1.0			854		849		783			495		389		239		594		273		472
Mercury	EPA 1631E	0.025			0.025 U		0.025 U		0.025 U			0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U
Nickel	EPA 200.8	0.5			3		0.9		4			1.9		0.9		3.1		0.6		2		2
Selenium	EPA 6010B	50.0			50 U		50 U		50 U			50 U		50 U		50 U		50 U		50 U		50 U
Silver	EPA 200.8	0.2			0.5 U		0.2 U		1 U			0.2 U		0.2 U		0.2 U		0.2 U		0.5 U		0.5 U
Thallium	EPA 200.8	0.2			0.5 U		0.2 U		1 U			0.2 U		0.2 U		0.2 U		0.2 U		0.5 U		0.5 U
Thallium	EPA 6010B	50.0			50 U		50 U		50 U			50 U		50 U		50 U		50 U		50 U		50 U
Vanadium	EPA 6010B	3.0			3 U		3 U		5			3 U		3		6		24		4		5
Zinc	EPA 6010B	6.0			6 U		6 U		6 U			16		6 U		6 U		6 U		6 U		6 U
Petroleum Hydrocarbons (µg/L)																						
TPH - Gasoline Range	NWTPH-Gx	250																				
TPH - Diesel Range	NWTPH-Dx	250																				
TPH - Motor Oil Range	NWTPH-Dx	500																				

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-154A	SY-PL2-154A-F	SY-PL2-154B	SY-PL2-154B-F	SY-PL2-154C	SY-PL2-154C-F	SY-PL2-155A	SY-PL2-155A-F	SY-PL2-955A	SY-PL2-955A-F	SY-PL2-155B	SY-PL2-155B-F	SY-PL2-155C	SY-PL2-155C-F	SY-PL2-156A	SY-PL2-156A-F	SY-PL2-11156A-1	SY-PL2-11156A-F-1	SY-PL2-601A
			Location:	PL2-154A	PL2-154A	PL2-154B	PL2-154B	PL2-154C	PL2-154C	PL2-155A	PL2-155A	PL2-155A Dup.	PL2-155A Dup.	PL2-155B	PL2-155B	PL2-155C	PL2-155C	PL2-156A	PL2-156A	PL2-156A Dup.	PL2-156A Dup.	PL2-601A
			Depth (ft bgs):	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	6 - 16	6 - 16	5 - 20
			Sample Date:	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/14/2005
VOCs (µg/L)																						
Chloromethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Bromomethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Vinyl Chloride	EPA 8260B	0.2		2.9		0.2 U		0.2 UJ		4.7		5		0.2 U		0.2 UJ		8.8		6.7		1.7
Chloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.3 J		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Methylene Chloride	EPA 8260B	0.3		0.3 U		0.3 U		0.3 UJ		0.3 U		0.3 U		0.3 U		0.3 UJ		0.3 U		0.3 U		0.3 U
Acetone	EPA 8260B	1.0		3.4 J		1 R		1 R		8.1 J		9.4 J		5.2 J		7.1 J		1.8 J		2 J		3.5 J
Carbon Disulfide	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
1,1-Dichloroethene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
1,1-Dichloroethane	EPA 8260B	0.2		9		0.2 U		0.2 UJ		2.1		2		0.2 U		0.2 UJ		4		3.9		0.2 U
trans-1,2-Dichloroethene	EPA 8260B	0.2		3.4		0.2 U		0.2 UJ		1.4		1.5		0.2 U		0.2 UJ		0.4		0.4		0.3
cis-1,2-Dichloroethene	EPA 8260B	0.2		0.3		0.2 U		0.2 UJ		1.8		2		0.2 U		0.2 UJ		0.6		0.5		6.3
Chloroform	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
1,2-Dichloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
2-Butanone	EPA 8260B	1.0		1 U		1 U		1 UJ		1 U		1 U		1 U		1 UJ		1 U		1 U		1 U
1,1,1-Trichloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Carbon Tetrachloride	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Vinyl Acetate	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Bromodichloromethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
1,2-Dichloropropane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
cis-1,3-Dichloropropene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Trichloroethene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.3		0.2		0.2 U		0.2 UJ		0.4		0.4		5
Dibromochloromethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
1,1,2-Trichloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Benzene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.8		0.8		0.2 U		0.2 UJ		0.4		0.4		0.2 U
trans-1,3-Dichloropropene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
2-Chloroethylvinylether	EPA 8260B	0.5		0.5 R		0.5 R		0.5 R		0.5 R		0.5 UJ		0.5 R		0.5 R		0.5 R		0.5 R		0.5 UJ
Bromoform	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Methyl isobutyl ketone	EPA 8260B	1.0		1 R		1 R		1 R		1 R		1 UJ		1 R		1 R		1 UJ		1 UJ		1 UJ
2-Hexanone	EPA 8260B	1.0		1 UJ		1 UJ		1 UJ		1 U		1 U		1 U		1 UJ		1 UJ		1 UJ		1 U
Tetrachloroethene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
1,1,2,2-Tetrachloroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Toluene	EPA 8260B	0.2		0.2 U		0.2 U		0.6 J		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Chlorobenzene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Ethylbenzene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Styrene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
Trichlorofluoromethane	EPA 8260B	0.2		0.2 U		0.6		0.5 J		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
1,1,2-Trichlorotrifluoroethane	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
m,p-Xylene	EPA 8260B	0.4		0.4 U		0.4 U		0.4 UJ		0.4 U		0.4 U		0.4 U		0.4 UJ		0.4 U		0.4 U		0.4 U
o-Xylene	EPA 8260B	0.2		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U		0.2 UJ		0.2 U		0.2 U		0.2 U
SVOCs (µg/L)																						
Phenol	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
bis(2-Chloroethyl)ether	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2-Chlorophenol	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
1,3-Dichlorobenzene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
1,4-Dichlorobenzene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Benzyl Alcohol	EPA 8270C	5.0		5 U						5 U								5 UJ		5 UJ		
1,2-Dichlorobenzene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2-Methylphenol	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
4-Methylphenol	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
N-Nitroso-Di-N-Propylamine	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
Hexachloroethane	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Nitrobenzene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Isophorone	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2-Nitrophenol	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
2,4-Dimethylphenol	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Benzoic Acid	EPA 8270C	10.0		10 U						10 U								10 UJ		10 UJ		
bis(2-Chloroethoxy)methane	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2,4-Dichlorophenol	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
1,2,4-Trichlorobenzene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Naphthalene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
4-Chloroaniline	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
Hexachlorobutadiene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
4-Chloro-3-methylphenol	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
2-Methylnaphthalene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Hexachlorocyclopentadiene	EPA 8270C	5.0		5 UJ						5 UJ								5 UJ		5 UJ		
2,4,6-Trichlorophenol	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
2,4,5-Trichlorophenol	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
2-Chloronaphthalene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2-Nitroaniline	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
Dimethylphthalate	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Acenaphthylene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
3-Nitroaniline	EPA 8270C	5.0		5 U						5 U								5 U		5 U		

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-154A	SY-PL2-154A-F	SY-PL2-154B	SY-PL2-154B-F	SY-PL2-154C	SY-PL2-154C-F	SY-PL2-155A	SY-PL2-155A-F	SY-PL2-955A	SY-PL2-955A-F	SY-PL2-155B	SY-PL2-155B-F	SY-PL2-155C	SY-PL2-155C-F	SY-PL2-156A	SY-PL2-156A-F	SY-PL2-11156A-1	SY-PL2-11156A-F-1	SY-PL2-601A
			Location:	PL2-154A	PL2-154A	PL2-154B	PL2-154B	PL2-154C	PL2-154C	PL2-155A	PL2-155A	PL2-155A Dup.	PL2-155A Dup.	PL2-155B	PL2-155B	PL2-155C	PL2-155C	PL2-156A	PL2-156A	PL2-156A Dup.	PL2-156A Dup.	PL2-601A
			Depth (ft bgs):	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	6 - 16	6 - 16	5 - 20
			Sample Date:	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/14/2005
SVOCs, continued (µg/L)																						
Acenaphthene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2,4-Dinitrophenol	EPA 8270C	10.0		10 U						10 UJ								10 UJ		10 UJ		
4-Nitrophenol	EPA 8270C	5.0		5 UJ						5 U								5 UJ		5 UJ		
Dibenzofuran	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
2,6-Dinitrotoluene	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
2,4-Dinitrotoluene	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
Diethylphthalate	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
4-Chlorophenyl-phenylether	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Fluorene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
4-Nitroaniline	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
4,6-Dinitro-2-Methylphenol	EPA 8270C	10.0		10 UJ						10 U								10 UJ		10 UJ		
N-Nitrosodiphenylamine	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
4-Bromophenyl-phenylether	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Hexachlorobenzene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Pentachlorophenol	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
Phenanthrene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Carbazole	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Anthracene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Di-n-Butylphthalate	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Fluoranthene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Pyrene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Butylbenzylphthalate	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
3,3'-Dichlorobenzidine	EPA 8270C	5.0		5 U						5 U								5 U		5 U		
Benzo(a)anthracene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
bis(2-Ethylhexyl)phthalate	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Chrysene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Di-n-octylphthalate	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Benzo(b)fluoranthene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Benzo(k)fluoranthene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Benzo(a)pyrene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Indeno(1,2,3-cd)pyrene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Dibenz(a,h)anthracene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Benzo(g,h,i)perylene	EPA 8270C	1.0		1 U						1 U								1 U		1 U		
Naphthalene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.36 U		0.27 U		
2-Methylnaphthalene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Acenaphthylene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Acenaphthene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Fluorene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Phenanthrene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Anthracene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Fluoranthene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Pyrene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Benzo(a)anthracene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Chrysene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Benzo(b)fluoranthene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Benzo(k)fluoranthene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Benzo(a)pyrene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Dibenz(a,h)anthracene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Benzo(g,h,i)perylene	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
Dibenzofuran	EPA 8270SIM	0.1		0.1 U						0.1 U								0.1 U		0.1 U		
PCBs (µg/L)																						
Aroclor 1016	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Aroclor 1016/1242	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Aroclor 1248	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Aroclor 1254	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Aroclor 1260	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Aroclor 1221	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Aroclor 1232	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Total PCB	EPA 8082	1.0		1 U						1 U		1 U						1 U		1 U		1 U
Inorganics (Total) (µg/L)																						
Antimony	EPA 6010B	50.0		50 U		50 U		50 U		50 U		50 U		50 U		100 U		50 U		50 U		50 U
Arsenic	EPA 200.8	0.2		21.9		3.5		2 U		93.4		95.1		3.6		8		106		104		11.8
Beryllium	EPA 6010B	1.0		1 U		1 U		1 U		1 U		1 U		1 U		2 U		1 U		1 U		1 U
Cadmium	EPA 6010B	2.0		2 U		2 U		2 U		2 U		2 U		2 U		4 U		2 U		2 U		2 U
Chromium	EPA 6010B	5.0		5 U		5 U		5 U		5 U		5 U		5 U		10 U		5 U		5 U		5 U
Copper	EPA 200.8	0.5		2.8		0.5 U		2 U		1 U		0.5 U		0.5 U		2 U		1 U		1 U		0.6
Lead	EPA 200.8	1.0		1 U		1 U		5 U		1 U		1 U		1 U		5 U		1 U		1 U		1 U
Manganese	EPA 6010B	1.0		2170		366		338		3640		3090		516		396		4850		4630		2130
Mercury	EPA 1631E	0.025		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U
Nickel	EPA 200.8	0.5		0.9		0.9		4		1 U		1		0.6		7		1 U		1 U		2.6
Selenium	EPA 6010B	50.0		50 U		50 U		50 U		50 U		50 U		50 U		100 U		50 U		50 U		50 U
Silver	EPA 200.8	0.2		0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U
Thallium	EPA 200.8	0.2		0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U
Thallium	EPA 6010B	50.0		50 U		50 U		50 U		50 U		50 U		50 U		100 U		50 U		50 U		50 U
Vanadium	EPA 6010B	3.0		12		3 U		5		19		15		3 U		6 U		10		10		3 U
Zinc	EPA 6010B	6.0		6 U		6 U		6 U		6 U		6 U		6 U		10 U		6 U		6 U		6 U

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-154A	SY-PL2-154A-F	SY-PL2-154B	SY-PL2-154B-F	SY-PL2-154C	SY-PL2-154C-F	SY-PL2-155A	SY-PL2-155A-F	SY-PL2-955A	SY-PL2-955A-F	SY-PL2-155B	SY-PL2-155B-F	SY-PL2-155C	SY-PL2-155C-F	SY-PL2-156A	SY-PL2-156A-F	SY-PL2-11156A-1	SY-PL2-11156A-F-1	SY-PL2-601A
			Location:	PL2-154A	PL2-154A	PL2-154B	PL2-154B	PL2-154C	PL2-154C	PL2-155A	PL2-155A	PL2-155A Dup.	PL2-155A Dup.	PL2-155B	PL2-155B	PL2-155C	PL2-155C	PL2-156A	PL2-156A	PL2-156A Dup.	PL2-156A Dup.	PL2-601A
			Depth (ft bgs):	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	6 - 16	6 - 16	45 - 50	45 - 50	80 - 85	80 - 85	6 - 16	6 - 16	6 - 16	6 - 16	5 - 20
			Sample Date:	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/14/2005	3/11/2005	3/11/2005	3/11/2005	3/11/2005	3/14/2005
Inorganics (Dissolved) (µg/L)																						
Antimony	EPA 6010B	50.0			50 U		50 U		50 U		50 U		50 U		50 U		100 U		50 U		50 U	
Arsenic	EPA 200.8	0.2			21.3		3.2		2 U		94		97.9		3.3		9		98.8		99.8	
Beryllium	EPA 6010B	1.0			1 U		1 U		1 U		1 U		1 U		1 U		2 U		1 U		1 U	
Cadmium	EPA 6010B	2.0			2 U		2 U		2 U		2 U		2 U		2 U		4 U		2 U		2 U	
Chromium	EPA 6010B	5.0			5 U		5 U		5 U		5 U		5 U		5 U		10 U		5 U		5 U	
Chromium(VI)	A3500D	10.0			12 J						11 UJ								11 UJ			
Copper	EPA 200.8	0.5			0.5 U		0.5 U		2 U		0.8		1		0.5 U		2 U		0.5 U		0.5 U	
Lead	EPA 200.8	1.0			1 U		1 U		5 U		1 U		1 U		1 U		5 U		1 U		1 U	
Manganese	EPA 6010B	1.0			2070		374		351		3800		3810		530		427		4820		4890	
Mercury	EPA 1631E	0.025			0.0604		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U		0.025 U	
Nickel	EPA 200.8	0.5			0.8		0.9		4		1		1.2		0.5		6		1		1.1	
Selenium	EPA 6010B	50.0			50 U		50 U		50 U		50 U		50 U		50 U		100 U		50 U		50 U	
Silver	EPA 200.8	0.2			0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U		1 U		0.2 U		0.2 U	
Thallium	EPA 200.8	0.2			0.2 U		0.2 U		1 U		0.2 U		0.2 U		0.2 U		1 U		0.2 U		0.2 U	
Thallium	EPA 6010B	50.0			50 U		50 U		50 U		50 U		50 U		50 U		100 U		50 U		50 U	
Vanadium	EPA 6010B	3.0			11		3 U		5		18		18		3 U		6 U		10		10	
Zinc	EPA 6010B	6.0			6 U		6 U		6 U		6 U		6 U		6 U		10 U		6 U		6 U	
Petroleum Hydrocarbons (µg/L)																						
TPH - Gasoline Range	NWTPH-Gx	250																				
TPH - Diesel Range	NWTPH-Dx	250																				
TPH - Motor Oil Range	NWTPH-Dx	500																				

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-601A-F	SY-PL2-601B	SY-PL2-601B-F	SY-PL2-602A	SY-PL2-602A-05202005	SY-PL2-602A-F	SY-PL2-602B	SY-PL2-602B-F	SY-PL2-603A	SY-PL2-603A	SY-PL2-603A	SY-PL2-603A-F	SY-PL2-603B	SY-PL2-603B-F	SY-PL2-903B	SY-PL2-903B-F
			Location:	PL2-601A	PL2-601B	PL2-601B	PL2-602A	PL2-602A	PL2-602A	PL2-602B	PL2-602B	PL2-603A	PL2-603A Re.	PL2-603A Re. Ex.	PL2-603A	PL2-603B	PL2-603B	PL2-603B Dup.	PL2-603B Dup.
			Depth (ft bgs):	5 - 20	45 - 50	45 - 50	6 - 21	6 - 21	6 - 21	44.5 - 49.5	44.5 - 49.5	6 - 21	6 - 21	6 - 21	6 - 21	44.5 - 49.5	44.5 - 49.5	44.5 - 49.5	44.5 - 49.5
			Sample Date:	3/14/2005	3/15/2005	3/15/2005	3/15/2005	5/20/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005
VOCs (µg/L)																			
Chloromethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Bromomethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Vinyl Chloride	EPA 8260B	0.2			12		8.9			9.8		22 E	24			3.1			
Chloroethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Methylene Chloride	EPA 8260B	0.3			0.3 U		0.3 U			0.3 U		0.3 U	0.6 U			0.3 U			
Acetone	EPA 8260B	1.0			3.1 J		2.1 J			3.1 J		1 R	9.7 J			5.8 J			
Carbon Disulfide	EPA 8260B	0.2			1.7		0.2 U			0.2 U		0.2 U	0.4 U			0.3			
1,1-Dichloroethene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2	0.4 U			0.2 U			
1,1-Dichloroethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		2.3	2.6			0.2 U			
trans-1,2-Dichloroethene	EPA 8260B	0.2			0.2 U		0.5			0.2 U		0.5	0.5			0.2 U			
cis-1,2-Dichloroethene	EPA 8260B	0.2			0.2 U		0.9			0.2 U		6.5	7			0.2 U			
Chloroform	EPA 8260B	0.2			0.2		0.2 U			12		0.2 U	0.4 U			4.2			
1,2-Dichloroethane	EPA 8260B	0.2			0.4		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
2-Butanone	EPA 8260B	1.0			1 U		1 U			1 U		1.7	3.4			1 U			
1,1,1-Trichloroethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Carbon Tetrachloride	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Vinyl Acetate	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Bromodichloromethane	EPA 8260B	0.2			0.2 U		0.2 U			0.5		0.2 U	0.4 U			0.2 U			
1,2-Dichloropropane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
cis-1,3-Dichloropropene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Trichloroethene	EPA 8260B	0.2			0.2 U		0.7			0.6		0.4	0.4 U			0.2 U			
Dibromochloromethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
1,1,2-Trichloroethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Benzene	EPA 8260B	0.2			0.2 U		2			0.2 U		5.6	5.7			0.2 U			
trans-1,3-Dichloropropene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
2-Chloroethylvinylether	EPA 8260B	0.5			0.5 UJ		0.5 UJ			0.5 UJ		0.5 UJ	1 U			0.5 UJ			
Bromoform	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Methyl isobutyl ketone	EPA 8260B	1.0			1 U		1 U			1 U		1 U	2 U			1 U			
2-Hexanone	EPA 8260B	1.0			1 U		1 U			1 U		1 U	2 U			1 U			
Tetrachloroethene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
1,1,2,2-Tetrachloroethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Toluene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2	0.4 U			0.2 U			
Chlorobenzene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Ethylbenzene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Styrene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
Trichlorofluoromethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
1,1,2-Trichlorotrifluoroethane	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
m,p-Xylene	EPA 8260B	0.4			0.4 U		0.4 U			0.4 U		0.4 U	0.8 U			0.4 U			
o-Xylene	EPA 8260B	0.2			0.2 U		0.2 U			0.2 U		0.2 U	0.4 U			0.2 U			
SVOCs (µg/L)																			
Phenol	EPA 8270C	1.0					1 U					1 U							
bis(2-Chloroethyl)ether	EPA 8270C	1.0					1 U					1 U							
2-Chlorophenol	EPA 8270C	1.0					1 U					1 U							
1,3-Dichlorobenzene	EPA 8270C	1.0					1 U					1 U							
1,4-Dichlorobenzene	EPA 8270C	1.0					1 U					1 U							
Benzyl Alcohol	EPA 8270C	5.0					5 U					5 U							
1,2-Dichlorobenzene	EPA 8270C	1.0					1 U					1 U							
2-Methylphenol	EPA 8270C	1.0					1 U					1 U							
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	1.0					1 U					1 U							
4-Methylphenol	EPA 8270C	1.0					1 U					1 U							
N-Nitroso-Di-N-Propylamine	EPA 8270C	5.0					5 U					5 U							
Hexachloroethane	EPA 8270C	1.0					1 U					1 U							
Nitrobenzene	EPA 8270C	1.0					1 U					1 U							
Isophorone	EPA 8270C	1.0					1 U					1 U							
2-Nitrophenol	EPA 8270C	5.0					5 U					5 U							
2,4-Dimethylphenol	EPA 8270C	1.0					1 U					1 U							
Benzoic Acid	EPA 8270C	10.0					10 U					10 U							
bis(2-Chloroethoxy)methane	EPA 8270C	1.0					1 U					1 U							
2,4-Dichlorophenol	EPA 8270C	5.0					5 U					5 U							
1,2,4-Trichlorobenzene	EPA 8270C	1.0					1 U					1 U							
Naphthalene	EPA 8270C	1.0					1 U					1 U							
4-Chloroaniline	EPA 8270C	5.0					5 U					5 U							
Hexachlorobutadiene	EPA 8270C	1.0					1 U					1 U							
4-Chloro-3-methylphenol	EPA 8270C	5.0					5 U					5 U							
2-Methylnaphthalene	EPA 8270C	1.0					1 U					1 U							
Hexachlorocyclopentadiene	EPA 8270C	5.0					5 UJ					5 UJ							
2,4,6-Trichlorophenol	EPA 8270C	5.0					5 U					5 U							
2,4,5-Trichlorophenol	EPA 8270C	5.0					5 U					5 U							
2-Chloronaphthalene	EPA 8270C	1.0					1 U					1 U							
2-Nitroaniline	EPA 8270C	5.0					5 U					5 U							
Dimethylphthalate	EPA 8270C	1.0					1 U					1 U							
Acenaphthylene	EPA 8270C	1.0					1 U					1 U							
3-Nitroaniline	EPA 8270C	5.0					5 U					5 U							

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-601A-F	SY-PL2-601B	SY-PL2-601B-F	SY-PL2-602A	SY-PL2-602A-05202005	SY-PL2-602A-F	SY-PL2-602B	SY-PL2-602B-F	SY-PL2-603A	SY-PL2-603A	SY-PL2-603A	SY-PL2-603A-F	SY-PL2-603B	SY-PL2-603B-F	SY-PL2-903B	SY-PL2-903B-F
			Location:	PL2-601A	PL2-601B	PL2-601B	PL2-602A	PL2-602A	PL2-602A	PL2-602B	PL2-602B	PL2-603A	PL2-603A Re.	PL2-603A Re. Ex.	PL2-603A	PL2-603B	PL2-603B	PL2-603B Dup.	PL2-603B Dup.
			Depth (ft bgs):	5 - 20	45 - 50	45 - 50	6 - 21	6 - 21	6 - 21	44.5 - 49.5	44.5 - 49.5	6 - 21	6 - 21	6 - 21	6 - 21	44.5 - 49.5	44.5 - 49.5	44.5 - 49.5	44.5 - 49.5
			Sample Date:	3/14/2005	3/15/2005	3/15/2005	3/15/2005	5/20/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005
SVOCs, continued (µg/L)																			
Acenaphthene	EPA 8270C	1.0					1 U					1 U							
2,4-Dinitrophenol	EPA 8270C	10.0					10 UJ					10 UJ							
4-Nitrophenol	EPA 8270C	5.0					5 U					5 U							
Dibenzofuran	EPA 8270C	1.0					1 U					1 U							
2,6-Dinitrotoluene	EPA 8270C	5.0					5 U					5 U							
2,4-Dinitrotoluene	EPA 8270C	5.0					5 U					5 U							
Diethylphthalate	EPA 8270C	1.0					1 U					1 U							
4-Chlorophenyl-phenylether	EPA 8270C	1.0					1 U					1 U							
Fluorene	EPA 8270C	1.0					1 U					1 U							
4-Nitroaniline	EPA 8270C	5.0					5 U					5 U							
4,6-Dinitro-2-Methylphenol	EPA 8270C	10.0					10 U					10 U							
N-Nitrosodiphenylamine	EPA 8270C	1.0					1 U					1 U							
4-Bromophenyl-phenylether	EPA 8270C	1.0					1 U					1 U							
Hexachlorobenzene	EPA 8270C	1.0					1 U					1 U							
Pentachlorophenol	EPA 8270C	5.0					5 U					5 U							
Phenanthrene	EPA 8270C	1.0					1 U					1 U							
Carbazole	EPA 8270C	1.0					1 U					1 U							
Anthracene	EPA 8270C	1.0					1 U					1 U							
Di-n-Butylphthalate	EPA 8270C	1.0					1 U					1 U							
Fluoranthene	EPA 8270C	1.0					1 U					1 U							
Pyrene	EPA 8270C	1.0					1 U					1 U							
Butylbenzylphthalate	EPA 8270C	1.0					1 U					1 U							
3,3'-Dichlorobenzidine	EPA 8270C	5.0					5 U					5 U							
Benzo(a)anthracene	EPA 8270C	1.0					1 U					1 U							
bis(2-Ethylhexyl)phthalate	EPA 8270C	1.0					1 U					1 U							
Chrysene	EPA 8270C	1.0					1 U					1 U							
Di-n-octylphthalate	EPA 8270C	1.0					1 U					1 U							
Benzo(b)fluoranthene	EPA 8270C	1.0					1 U					1 U							
Benzo(k)fluoranthene	EPA 8270C	1.0					1 U					1 U							
Benzo(a)pyrene	EPA 8270C	1.0					1 U					1 U							
Indeno(1,2,3-cd)pyrene	EPA 8270C	1.0					1 U					1 U							
Dibenz(a,h)anthracene	EPA 8270C	1.0					1 U					1 U							
Benzo(g,h,i)perylene	EPA 8270C	1.0					1 U					1 U							
Naphthalene	EPA 8270SIM	0.1					0.1 U					0.1 U							
2-Methylnaphthalene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Acenaphthylene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Acenaphthene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Fluorene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Phenanthrene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Anthracene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Fluoranthene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Pyrene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Benzo(a)anthracene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Chrysene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Benzo(b)fluoranthene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Benzo(k)fluoranthene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Benzo(a)pyrene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Dibenz(a,h)anthracene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Benzo(g,h,i)perylene	EPA 8270SIM	0.1					0.1 U					0.1 U							
Dibenzofuran	EPA 8270SIM	0.1					0.1 U					0.1 U							
PCBs (µg/L)																			
Aroclor 1016	EPA 8082	1.0					1 U					1 U							
Aroclor 1016/1242	EPA 8082	1.0					1 U					1 U							
Aroclor 1248	EPA 8082	1.0					1 U					1 U							
Aroclor 1254	EPA 8082	1.0					1 U					1 U							
Aroclor 1260	EPA 8082	1.0					1 U					1 U							
Aroclor 1221	EPA 8082	1.0					1 U					1 U							
Aroclor 1232	EPA 8082	1.0					1 U					1 U							
Total PCB	EPA 8082	1.0					1 U					1 U							
Inorganics (Total) (µg/L)																			
Antimony	EPA 6010B	50.0			50 U		50 U			50 U		50 U				50 U			
Arsenic	EPA 200.8	0.2			6.6		31.4			1.2		12.6				1.3			
Beryllium	EPA 6010B	1.0			1 U		1 U			1 U		1 U				1 U			
Cadmium	EPA 6010B	2.0			2 U		2 U			2 U		2 U				2 U			
Chromium	EPA 6010B	5.0			5 U		5 U			5 U		5 U				5 U			
Copper	EPA 200.8	0.5			1.3		1.2			1		0.9				0.7			
Lead	EPA 200.8	1.0			1 U		1 U			1 U		1 U				1 U			
Manganese	EPA 6010B	1.0			412		3020			227		2890				341			
Mercury	EPA 1631E	0.025			0.025 U		0.025 U			0.025 U		0.025 U				0.025 U			0.025 U
Nickel	EPA 200.8	0.5			1.5		2.5			2.4		2.2				1.6			
Selenium	EPA 6010B	50.0			50 U		50 U			50 U		50 U				50 U			
Silver	EPA 200.8	0.2			0.2 U		0.2 U			0.2 U		0.2 U				0.2 U			
Thallium	EPA 200.8	0.2			0.2 U		0.2 U			0.2 U		0.2 U				0.2 U			
Thallium	EPA 6010B	50.0			50 U		50 U			50 U		50 U				50 U			
Vanadium	EPA 6010B	3.0			3 U		4			4		3				3 U			
Zinc	EPA 6010B	6.0			7		10			953		6 U				414			

Table 3-2 Groundwater Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	SY-PL2-601A-F	SY-PL2-601B	SY-PL2-601B-F	SY-PL2-602A	SY-PL2-602A-05202005	SY-PL2-602A-F	SY-PL2-602B	SY-PL2-602B-F	SY-PL2-603A	SY-PL2-603A	SY-PL2-603A	SY-PL2-603A-F	SY-PL2-603B	SY-PL2-603B-F	SY-PL2-903B	SY-PL2-903B-F
			Location:	PL2-601A	PL2-601B	PL2-601B	PL2-602A	PL2-602A	PL2-602A	PL2-602B	PL2-602B	PL2-603A	PL2-603A Re.	PL2-603A Re. Ex.	PL2-603A	PL2-603B	PL2-603B	PL2-603B Dup.	PL2-603B Dup.
			Depth (ft bgs):	5 - 20	45 - 50	45 - 50	6 - 21	6 - 21	6 - 21	44.5 - 49.5	44.5 - 49.5	6 - 21	6 - 21	6 - 21	6 - 21	44.5 - 49.5	44.5 - 49.5	44.5 - 49.5	44.5 - 49.5
			Sample Date:	3/14/2005	3/15/2005	3/15/2005	3/15/2005	5/20/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005	3/15/2005
Inorganics (Dissolved) (µg/L)																			
Antimony	EPA 6010B	50.0		50 U		50 U			50 U		50 U				50 U		50 U		
Arsenic	EPA 200.8	0.2		12		6.6			30.3		1.1				12.7		2		
Beryllium	EPA 6010B	1.0		1 U		1 U			1 U		1 U				1 U		1 U		
Cadmium	EPA 6010B	2.0		2 U		2 U			2 U		2 U				2 U		2 U		
Chromium	EPA 6010B	5.0		5 U		5 U			5 U		5 U				5 U		5 U		
Chromium(VI)	A3500D	10.0																	
Copper	EPA 200.8	0.5		0.5 U		0.5 U			0.8		0.5 U				1		0.5 U		
Lead	EPA 200.8	1.0		1 U		1 U			1 U		1 U				1 U		1 U		
Manganese	EPA 6010B	1.0		2400		442			3170		261				3170		361		
Mercury	EPA 1631E	0.025		0.025 U		0.025 U			0.025 U		0.025 U				0.025 U		0.025 U		0.025 U
Nickel	EPA 200.8	0.5		2.6		1.5			2.8		2.1				2.7		1.7		
Selenium	EPA 6010B	50.0		50 U		50 U			50 U		50 U				50 U		50 U		
Silver	EPA 200.8	0.2		0.2 U		0.2 U			0.2 U		0.2 U				0.2 U		0.2 U		
Thallium	EPA 200.8	0.2		0.2 U		0.2 U			0.2 U		0.2 U				0.2 U		0.2 U		
Thallium	EPA 6010B	50.0		50 U		50 U			50 U		50 U				50 U		50 U		
Vanadium	EPA 6010B	3.0		3 U		3 U			4		3				3		3 U		
Zinc	EPA 6010B	6.0		6 U		6 U			6 U		717				6 U		382		
Petroleum Hydrocarbons (µg/L)																			
TPH - Gasoline Range	NWTPH-Gx	250						250 U				250 U		250 U					
TPH - Diesel Range	NWTPH-Dx	250						260				650							
TPH - Motor Oil Range	NWTPH-Dx	500						500 U				500 U							

Notes:
Dup. = Duplicate analysis
Re. = Reanalysis
Re. Ex. = Reextraction

Table 3-3 Summary of Groundwater Field Parameter Results
South Yard Area
Boeing Plant 2

Sample Location Name	Date	Gallons	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (Mg/L)	Temp. (oC)	ORP (mV)	Appearance
PL2-106A	3/14/2005	2.5	6.78	91.0	9.60	0.11	15.6	-119	Clear
PL2-106B	3/14/2005	4.7	6.64	110.0	7.35	0.18	16.0	-108	Clear
PL2-106C	3/14/2005	2.6	7.41	3000.0	11.40	0.09	16.4	-219	Clear
PL2-110C	3/16/2005	1.7	7.28	2210.0	7.01	0.20	14.7	-158	Clear
PL2-112A	3/16/2005	1.6	6.71	100.0	7.12	0.14	13.6	-79	Clear
PL2-112B	3/16/2005	2.1	6.76	120.0	13.40	0.07	13.5	-44	Clear
PL2-113A	3/16/2005	1.5	6.57	120.0	7.20	0.43	13.9	-37	Clear
PL2-115A	3/15/2005	0.9	5.90	20.0	12.00	2.00	14.4	66	Clear
PL2-116A	3/16/2005	2.4	6.57	90.6	8.60	0.36	12.8	-36	Clear
PL2-117A	3/16/2005	0.7	6.28	55.3	158.00	2.06	11.8	-50	Cloudy
PL2-120A	3/10/2005	8.1	6.83	65.0	7.03	0.17	15.6	-89	Clear
PL2-151A	3/11/2005	3.5	5.98	32.0	14.60	0.20	14.6	-34	Clear
PL2-151B	3/11/2005	2.0	6.53	220.0	1.94	0.31	15.2	-115	Clear
PL2-151C	3/11/2005	2.6	7.22	1900.0	8.12	0.24	15.3	-216	Clear
PL2-152A	3/15/2005	3.5	7.06	97.0	4.66	0.11	12.6	65	Clear
PL2-152B	3/15/2005	2.5	7.02	310.0	2.86	0.31	13.9	-95	Clear
PL2-152C	3/15/2005	1.5	7.59	1600.0	8.83	0.11	13.9	-186	Clear
PL2-153A	3/17/2005	2.2	6.80	74.5	5.20	0.15	15.3	-101	Clear
PL2-153B	3/9/2005	1.5	7.12	1100.0	0.75	0.19	15.9	-188	Clear
PL2-153C	3/9/2005	1.0	7.09	1400.0	2.47	0.15	16.1	-200	Clear
PL2-154A	3/10/2005	2.9	6.87	65.0	0.80	0.17	15.6	-170	Clear
PL2-154B	3/10/2005	2.2	6.89	380.0	2.59	0.15	16.0	-162	Clear
PL2-154C	3/10/2005	2.5	7.26	2810.0	2.81	0.12	16.2	-210	Clear
PL2-155A	3/14/2005	2.6	6.83	59.0	9.80	0.06	17.2	-151	Clear
PL2-155B	3/14/2005	2.4	6.67	220.0	11.60	0.10	17.7	-98	Clear
PL2-155C	3/14/2005	3.0	7.42	2900.0	24.30	0.06	17.0	-215	Clear
PL2-156A	3/11/2005	1.3	6.74	70.0	6.15	0.15	15.9	-182	Clear
PL2-601A	3/14/2005	2.3	6.62	53.0	2.41	0.10	16.6	-55	Clear
PL2-601B	3/15/2005	2.4	6.95	240.0	8.90	0.20	15.7	-77	Clear
PL2-602A	3/15/2005	2.4	6.60	100.0	8.60	0.09	15.6	-53	Clear
PL2-602B	3/15/2005	2.0	7.07	82.0	10.00	0.13	16.0	-64	Clear
PL2-603A	3/15/2005	2.2	6.83	110.0	5.61	0.12	15.4	-28	Clear
PL2-603B	3/15/2005	2.5	6.97	120.0	7.71	0.13	15.5	5	Clear
SY-DP-01	3/8/2005	2.8	7.01	100.0	49.40	0.70	15.5	-122	Cloudy
SY-DP-02	3/7/2005	2.0	6.86	79.0	8.65	0.60	15.8	-124	Clear
SY-DP-03	3/7/2005	2.2	7.00	56.0	47.30	0.50	15.8	-161	Cloudy
SY-DP-04	3/7/2005	1.7	6.83	130.0	9.93	0.80	15.7	-157	Clear
SY-DP-05	3/7/2005	1.7	6.79	64.0	130.00	1.60	15.0	-130	Cloudy
SY-DP-06	3/7/2005	1.3	6.69	73.0	6.37	0.90	16.7	-70	Clear
SY-DP-07	3/7/2005	1.4	6.83	96.0	19.90	0.90	15.9	-79	Clear
SY-DP-08	3/7/2005	2.2	6.68	70.0	86.40	0.80	16.7	-74	Cloudy
SY-DP-09	3/8/2005	2.8	6.78	89.0	18.50	0.70	17.1	-83	Clear
SY-DP-10	3/8/2005	0.4	6.43	130.0	26.00	3.00	18.3	4	Clear
SY-DP-11	3/8/2005	1.5	6.92	140.0	6.24	1.40	17.8	-51	Clear
SY-DP-12	3/8/2005	2.5	6.69	120.0	30.80	1.50	17.5	-45	Clear

Table 5-1 Detected Constituents in Soil Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 Soil Screening Level	Laboratory RL	Sample ID:	DP-SY-1-1	DP-SY-1-5	DP-SY-1-10	DP-SY-2-1	DP-SY-2-5	DP-SY-2-10	DP-SY-3-1	DP-SY-3-5	DP-SY-3-10	DP-SY-4-1	DP-SY-4-5	DP-SY-4-10	DP-SY-5-1	DP-SY-5-5	DP-SY-5-10	DP-SY-5-10	DP-SY-6-1	DP-SY-6-5	DP-SY-6-10	DP-SY-7-1	DP-SY-7-5	DP-SY-7-5	DP-SY-7-10
				Location:	DP-SY-01	DP-SY-01	DP-SY-01	DP-SY-02	DP-SY-02	DP-SY-02	DP-SY-03	DP-SY-03	DP-SY-03	DP-SY-04	DP-SY-04	DP-SY-04	DP-SY-05	DP-SY-05	DP-SY-05	DP-SY-05 Re.	DP-SY-06	DP-SY-06	DP-SY-06	DP-SY-07	DP-SY-07	DP-SY-07 Re.	DP-SY-07
				Depth (ft bgs):	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	4 - 5	9 - 10
				Sample Date:	3/8/2005	3/8/2005	3/8/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005
VOCs (µg/kg)																											
Vinyl Chloride	EPA 8260B	4.59	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	9.5	1 U	1 U	6.5	1 U	1.2 U	11		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
Chloroethane	EPA 8260B		1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
Methylene Chloride	EPA 8260B	828	2.0		2.1 U	2.5 U	2.6 U	2.3 U	2.1 U	2 U	2.6 U	2.1 U	2 U	2 U	2.1 U	2.7 U	5.7	2.4 U	2.6 U		2.2 U	2.4 U	2.8 U	2.1 U	2.3 U		2.3 U
Acetone	EPA 8260B		5.0		5.2 U	150	56	5.9 U	5.2 U	47	6.4 U	5.3 U	26 U	5 U	5.2 U	34 U	5.1 U	6.1 U	110		9 U	6 U	74	5.3 U	8.1 U		11 U
Carbon Disulfide	EPA 8260B		1.0		1 U	1.2 U	1.3 U	1.2 UJ	1 UJ	1 UJ	1.3 UJ	1.1 UJ	1 UJ	1 UJ	1 UJ	1.4 UJ	1 UJ	1.2 U	1.4		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
1,1-Dichloroethane	EPA 8260B		1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
trans-1,2-Dichloroethene	EPA 8260B	899	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.9		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
cis-1,2-Dichloroethene	EPA 8260B	794	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	2.5	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	48		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
2-Butanone	EPA 8260B		5.0		5.2 U	37	11	5.9 U	5.2 U	13	6.4 U	5.3 U	6.2	5 U	5.2 U	9.3	5.1 U	6.1 U	19		5.5 U	6 U	13	5.2 U	5.6 U		5.7 U
1,1,1-Trichloroethane	EPA 8260B	27,800	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
Trichloroethene	EPA 8260B	2	1.0		1 U	1.2 U	1.3 U	2	1 U	1 U	1.6	4.5	1.7	1 U	1 U	1.4 U	3.7	4.5	19		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
Benzene	EPA 8260B	25.3	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
Tetrachloroethene	EPA 8260B	8.72	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	2.7	3.6	1 U	1.1	1.7	1.4 U	110	46	57		1.1 U	3.4	1.4 U	1 U	1.1 U		1.1 U
Toluene	EPA 8260B	19,000	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U
SVOCs (µg/kg)																											
Naphthalene	EPA 8270C	24,800	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Hexachlorobutadiene	EPA 8270C	6,380	67		66 U	65 U	66 U	70 U	340	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
2-Methylnaphthalene	EPA 8270C		67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Acenaphthylene	EPA 8270C		67		66 U	65 U	66 U	75	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Acenaphthene	EPA 8270C	32,400	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Phenanthrene	EPA 8270C		67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Anthracene	EPA 8270C	6,080,000	67		66 U	65 U	66 U	72	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Di-n-Butylphthalate	EPA 8270C	50,900	67		66 U	65 U	66 U	180	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		84	66 U	65 U	63 U	63 U	63 U	64 U
Fluoranthene	EPA 8270C	44,000	67		66 U	65 U	66 U	510	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Pyrene	EPA 8270C	1,750,000	67		66 U	65 U	66 U	520	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66	66 U	65 U	63 U	63 U	63 U	64 U
Benzo(a)anthracene	EPA 8270C	41.9	67		66 U	65 U	66 U	180	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
bis(2-Ethylhexyl)phthalate	EPA 8270C	1,570	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		100	66 U	65 U	63 U	63 U	63 U	64 U
Chrysene	EPA 8270C	46.6	67		66 U	65 U	66 U	240	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U
Benzo(b)fluoranthene	EPA 8270C	144	67		66 U	65 U	66 U	230	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U
Benzo(k)fluoranthene	EPA 8270C	144	67		66 U	65 U	66 U	210	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U
Benzo(a)pyrene	EPA 8270C	113	67		66 U	65 U	66 U	230	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U
Indeno(1,2,3-cd)pyrene	EPA 8270C	406	67		66 U	65 U	66 U	110	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U
Dibenz(a,h)anthracene	EPA 8270C	210	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U
Benzo(g,h,i)perylene	EPA 8270C		67		66 U	65 U	66 U	86	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U
Naphthalene	EPA 8270SIM	24,800	6.7		6.6 U	6.5 U	6.6 U	21 U	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
2-Methylnaphthalene	EPA 8270SIM		6.7		6.6 U	6.5 U	6.6 U	21 U	6.4 U	6.5 U	6.6 U	21	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	11	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Acenaphthylene	EPA 8270SIM		6.7		6.6 U	6.5 U	6.6 U	120	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Acenaphthene	EPA 8270SIM	32,400	6.7		6.6 U	6.5 U	6.6 U	59	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Phenanthrene	EPA 8270SIM		6.7		6.6 U	7.8	12	34	6.4 U	6.5 U	6.6 U	14	9.2	6.6 U	17	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	22	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Anthracene	EPA 8270SIM	6,080,000	6.7		6.6 U	6.5 U	6.6 U	99	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Fluoranthene	EPA 8270SIM	44,000	6.7		6.6 U	10	12	510	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	7.9	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	41	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Pyrene	EPA 8270SIM	1,750,000	6.7		13	13	9.9	580	6.4 U	6.5 U	6.6 U	6.3 U	7.2	8.6	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	53	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Benzo(a)anthracene	EPA 8270SIM	41.9	6.7		6.6 U	6.5 U	6.6 U	210	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Chrysene	EPA 8270SIM	46.6	6.7		7.3	7.8	10	240	6.4 U	6.5 U	6.6 U	6.3 U	11	9.3	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	30	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Benzo(b)fluoranthene	EPA 8270SIM	144	6.7		9.9 J	6.5 U	6.6 U	290	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	14	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Benzo(k)fluoranthene	EPA 8270SIM	144	6.7		8.6 J	8.4	6.6 U	170	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	11	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Benzo(a)pyrene	EPA 8270SIM	113	6.7		6.6 U	6.5 U	6.6 U	220	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	7.3	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	33	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	406	6.7		6.6 U	6.5 U	6.6 U	95	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	9.9	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Dibenz(a,h)anthracene	EPA 8270SIM	210	6.7		6.6 U	6.5 U	6.6 U	30	6.4 UJ	6.5 UJ	6.6 UJ	6.3 UJ	6.5 U	6.6 UJ	6.5 UJ	6.6 UJ	6.4 UJ	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
Benzo(g,h,i)perylene	EPA 8270SIM		6.7		6.6 U	6.5 U	6.6 U	82	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	13	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U
SVOCs (µg/kg)																											
Aroclor 1254	EPA 8082	33	33		130	33 U	32 U	230	33 U	32 U	90	32 U	49	330	80	33 U	33 U	32 U	33 U		230	32 U	32 U	33 U	33 U		33 U
Aroclor 1260	EPA 8082	33	33		70 U	33 U	32 U	140	33 U	32 U	73	32 U	33 J	210	45	33 U	33 U	32 U	33 U		77 J	32 U	32 U	33 U	33 U		33 U
Total PCB	EPA 8082	33	33		130	33 U	32 U	370	33 U	32 U	163	32 U	82 J	540	125	33 U	33 U	32 U	33 U		307 J	32 U	32 U	33 U	33 U		33 U
Inorganics (mg/kg)																											
Aluminum	EPA 6010B		5.0		9080	19400	16700	13700	10000	22500	8830	8860	12600	9430	9520	10400	7750	10200	11800		10300	10700	16500	9070	8730		11600
Arsenic	EPA 6010B	7.3	5.0		5 U	7 U	6 U	5 U	6 U	7 U	5 U	6 U	5 U	5 U	5 U	6 U	5 U	7 U	6 U		7	6 U	6 U	5 U	5 U		6 U
Beryllium	EPA 6010B	222	0.1		0.1	0.3	0.2	0.14	0.1	0.3	0.1	0.1 U	0.2	0.1	0.1	0.1	0.1	0.1 U	0.1		0.1	0.1 U	0.2	0.1 U	0.1		0.1
Cadmium	EPA 6010B	1.21	0.2		0.2 U	0.3	0.3	0.4	0.2 U	0.3 U	0.2 U	0.2 U	0.2	0.4	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U		4.3	0.2 U	0.2 U	0.2 U	0.2 U		0.2 U
Chromium	EPA 6010B		0.5		14.5	19	17	27.4 J	52.1 J	21.8 J	15.1 J	9 J	18 J	18.3 J	14 J	12.1 J	11.7 J	11.4 J	13.2 J		15.3 J	19.5 J	16.1 J	10.5 J	9.9 J		13.5 J
Copper	EPA 6010B	36.4	0.2		12.2	30	24.4	32.9	13.5	31.5	12.8	10.8	20.6	17.7	12.9	13.6	9.1	13.2	15.5		25.1	12.8	24.2	11.3	9.2		16.5
Lead	EPA 6010B	1,000	2.0		5	15	10	6	4	10	4	2	6	9	3	2	2 U	3	3 U		16	3	4	2	2 U		2 U
Magnesium	EPA 6010B		5.0		3140	5040	4230	4670	2200	5460	3080	1930	3630	2650	2580	2370	2550	2150	2560		2950	2420	3640	2070	2200		2450
Manganese	EPA 6010B	1,146	0.1		158	248	230	231	94.3	370	142	73.4	180	141	131	136	110	77.9	150		157	87.5	180	86.8	161		228
Mercury	EPA 7471A	0.07	0.05		0.05 U	0.07 U	0.06 U	0.04	0.05 U	0.07	0.05	0.05 U	0.06	0.09	0.04 U	0.05 U	0.04 U	0.05 U	0.05 U		0.06 U	0.05 U	0.05 U	0.04 U	0.04 U		0.05 U
Nickel	EPA 6010B	47.8	1.0		14	16	13	19.7	8	17	11	6	13	13	13	8	8.7	10	9		12	7	12	7	8		9
Silver	EPA 6010B	0.323	0.3		0.3 U	0.4 U	0.4 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.4 U	0.4 U		7.1	0.4 U	0.4 U	0.3 U	0.3 U		0.4 U
Vanadium	EPA 6010B	56,100	0.3		36	55.9	49.7	45.6	36.5	58.8	37.3	36.5	54.1	41.3	39.8	44.6	39.4	41.8	48		41.4	38.2	50	36.1	36.8		46.3
Zinc	EPA 6010B	101	0.6		33.5	53.7	42.9	50.4	23.3	64.3	32.4	17	35.3	48.7	27.5	23.7	23.5	22.5	24.1		83.3	22.5	27.3	19.9	22.5		22.5
Petroleum Hydrocarbons (mg/kg)																											
TPH - Diesel Range	NWTPH-Dx	2,000	5.0																								
TPH - Motor Oil Range	NWTPH-Dx	2,000	10.0																								

Notes:
Re. = Reanalysis

Table 5-1 Detected Constituents in Soil Compared to SLs
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	2004 Soil Screening Level	Laboratory RL	Sample ID:	DP-SY-7-10	DP-SY-8-1	DP-SY-8-5	DP-SY-8-5	DP-SY-8-10	DP-SY-9-1	DP-SY-9-5	DP-SY-9-10	DP-SY-10-1	DP-SY-10-5	DP-SY-10-10	DP-SY-11-1	DP-SY-11-5	DP-SY-11-10	DP-SY-12-1	DP-SY-12-5	DP-SY-12-10	SY-PL2-601A-1.5	SY-PL2-601A-5	SY-PL2-601A-10
				Location:	DP-SY-07 Re.	DP-SY-08	DP-SY-08	DP-SY-08 Re.	DP-SY-08	DP-SY-09	DP-SY-09	DP-SY-09	DP-SY-10	DP-SY-10	DP-SY-10	DP-SY-11	DP-SY-11	DP-SY-11	DP-SY-12	DP-SY-12	DP-SY-12	PL2-601A	PL2-601A	PL2-601A
				Depth (ft bgs):	9 - 10	0 - 1	4 - 5	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1.5	3.5 - 5	8.5 - 10
				Sample Date:	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/1/2005	3/1/2005	3/1/2005
VOCs (µg/kg)																								
Vinyl Chloride	EPA 8260B	4.59	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	2.2	1 U	1 U	1.2 U	1 U	1 U	1.2 U
Chloroethane	EPA 8260B		1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	3.9	1 U	1 U	1.2 U	1 U	1 U	1.2 U
Methylene Chloride	EPA 8260B	828	2.0			2.2 U	2.8 U	2.7 U	2.6 U	2 U	2.5 U	2.4 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.7 U	2 U	2.1 U	2.5 U	2 U	2 U	2.5 U
Acetone	EPA 8260B		5.0			5.4 U	78	140	64	6.2	6.3 U	120	5.4 U	5.4 U	7.5	6.4	6.9	210	5 U	5.6	37	5.1 U	6.1 U	6.1 U
Carbon Disulfide	EPA 8260B		1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	5.7	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 UJ	1 UJ	2.3 J
1,1-Dichloroethane	EPA 8260B		1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	6.1	1 U	1 U	4.6	1 U	1 U	1.2 U
trans-1,2-Dichloroethene	EPA 8260B	899	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U
cis-1,2-Dichloroethene	EPA 8260B	794	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	3.4	1 U	1 U	2	1 U	1 U	1.2 U
2-Butanone	EPA 8260B		5.0			5.4 U	16	29	12	5 U	6.3 U	25	5.4 U	5.4 U	5.2 U	5.4 U	5.5 U	54	5 U	5.2 U	7.3	5 U	5 U	6.1 U
1,1,1-Trichloroethane	EPA 8260B	27,800	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.2	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U
Trichloroethene	EPA 8260B	2	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.2	3.5	1 U	4	1.4	1.4 U	1 U	1 U	2.1	2	1.4	1.2 U
Benzene	EPA 8260B	25.3	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U
Tetrachloroethene	EPA 8260B	8.72	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	2	1 U	3.1	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U
Toluene	EPA 8260B	19,000	1.0			1.1 U	1.4 U	1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	2.2	1 U	1 U	1.2 U	1 U	1 U	1.2 U
SVOCs (µg/kg)																								
Naphthalene	EPA 8270C	24,800	67			65 U	66 U		64 U	66 U	66 U	65 U												
Hexachlorobutadiene	EPA 8270C	6,380	67			65 U	66 U		64 U	66 U	66 U	65 U												
2-Methylnaphthalene	EPA 8270C		67			65 U	66 U		64 U	66 U	66 U	65 U												
Acenaphthylene	EPA 8270C		67			65 U	66 U		64 U	66 U	66 U	65 U												
Acenaphthene	EPA 8270C	32,400	67			65 U	66 U		64 U	66 U	66 U	65 U												
Phenanthrene	EPA 8270C		67			65 U	66 U		64 U	66 U	66 U	65 U												
Anthracene	EPA 8270C	6,080,000	67			65 U	66 U		64 U	66 U	66 U	65 U												
Di-n-Butylphthalate	EPA 8270C	50,900	67			65 U	66 U		64 U	66 U	66 U	65 U												
Fluoranthene	EPA 8270C	44,000	67			65 U	66 U		64 U	66 U	66 U	65 U												
Pyrene	EPA 8270C	1,750,000	67			65 U	66 U		64 U	66 U	66 U	65 U												
Benzo(a)anthracene	EPA 8270C	41.9	67			65 U	66 U		64 U	66 U	66 U	65 U												
bis(2-Ethylhexyl)phthalate	EPA 8270C	1,570	67			65 U	66 U		64 U	66 U	66 U	65 U												
Chrysene	EPA 8270C	46.6	67			65 U	66 U		64 U	66 U	66 U	65 U												
Benzo(b)fluoranthene	EPA 8270C	144	67			65 U	66 U		64 U	66 U	66 U	65 U												
Benzo(k)fluoranthene	EPA 8270C	144	67			65 U	66 U		64 U	66 U	66 U	65 U												
Benzo(a)pyrene	EPA 8270C	113	67			65 U	66 U		64 U	66 U	66 U	65 U												
Indeno(1,2,3-cd)pyrene	EPA 8270C	406	67			65 U	66 U		64 U	66 U	66 U	65 U												
Dibenz(a,h)anthracene	EPA 8270C	210	67			65 U	66 U		64 U	66 U	66 U	65 U												
Benzo(g,h,i)perylene	EPA 8270C		67			65 U	66 U		64 U	66 U	66 U	65 U												
Naphthalene	EPA 8270SIM	24,800	6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
2-Methylnaphthalene	EPA 8270SIM		6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
Acenaphthylene	EPA 8270SIM		6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
Acenaphthene	EPA 8270SIM	32,400	6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
Phenanthrene	EPA 8270SIM		6.7		6.4 U	7.8	11		6.4 U	9.9	6.6 U	6.5 U												
Anthracene	EPA 8270SIM	6,080,000	6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
Fluoranthene	EPA 8270SIM	44,000	6.7		6.4 U	13	21		6.4 U	6.6 U	6.6 U	6.5 U												
Pyrene	EPA 8270SIM	1,750,000	6.7		6.4 U	16	18		6.4 U	6.6	6.6 U	6.5 U												
Benzo(a)anthracene	EPA 8270SIM	41.9	6.7		6.4 U	9.1	7.3		6.4 U	6.6 U	6.6 U	6.5 U												
Chrysene	EPA 8270SIM	46.6	6.7		6.4 U	12	8.6		6.4 U	6.6 U	6.6 U	6.5 U												
Benzo(b)fluoranthene	EPA 8270SIM	144	6.7		6.4 U	15	7.9		6.4 U	6.6 U	6.6 U	6.5 U												
Benzo(k)fluoranthene	EPA 8270SIM	144	6.7		6.4 U	15	5.3 J		6.4 U	6.6 U	6.6 U	6.5 U												
Benzo(a)pyrene	EPA 8270SIM	113	6.7		6.4 U	9.7	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	406	6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
Dibenz(a,h)anthracene	EPA 8270SIM	210	6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
Benzo(g,h,i)perylene	EPA 8270SIM		6.7		6.4 U	6.5 U	6.6 U		6.4 U	6.6 U	6.6 U	6.5 U												
SVOCs (µg/kg)																								
Aroclor 1254	EPA 8082	33	33			63	32 U		33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U
Aroclor 1260	EPA 8082	33	33			41	32 U		33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U
Total PCB	EPA 8082	33	33			104	32 U		33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U
Inorganics (mg/kg)																								
Aluminum	EPA 6010B		5.0			10800	17200		16500	8840	10400	8400	9950	8560	11900	7630	8110	11400	7790	8320	8650	8730	8500	11900
Arsenic	EPA 6010B	7.3	5.0			6 U	8		7 U	6 U	6 U	6 U	5 U	5 U	6 U	5 U	5 U	6	5 U	5 U	5 U	5 U	5 U	6 U
Beryllium	EPA 6010B	222	0.1			0.1	0.3		0.2	0.1 U	0.1 U	0.1 U	0.12	0.1 U	0.2	0.1	0.1	0.2	0.1 U	0.1 U	0.1 U	0.11	0.1 U	0.1
Cadmium	EPA 6010B	1.21	0.2			0.8	0.3 U		0.3 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chromium	EPA 6010B		0.5			15 J	19.5 J		15.8 J	10.1	11.4	10.5	13.4	10.9	17.1	13.5	11.7	13.7	12.2	14.3	12.9	11.4	10.6	13
Copper	EPA 6010B	36.4	0.2			25.3	32		25.4	12.2	13.7	13.1	13.1	11.6	22	9	9.4	23.8	11.7	9.9	9.9	12.2	9.2	14.2
Lead	EPA 6010B	1,000	2.0			9	11		4	2 U	3	2 U	4	2	3	2 U	3	4	3	2	2 U	9	2 U	2 U
Magnesium	EPA 6010B		5.0			2980	4750		3580	1970	2290	1920	3130	2170	3500	2410	2630	3610	2650	2750	2380	3070	2500	2560
Manganese	EPA 6010B	1,146	0.1			148	184		230	72	85.2	174	156	83.7	138	118	123	174	134	124	108	165	122	135
Mercury	EPA 7471A	0.07	0.05			0.08	0.1		0.07 U	0.05 U	0.06 U	0.05 U	0.04 U	0.04 U	0.06 U	0.05 U	0.05	0.05 U	0.05 U	0.05 U	0.04 U	0.05 U	0.05 U	0.05 U
Nickel	EPA 6010B	47.8	1.0			12	15		12	6	9	7	12.3	7	11	8.3	8.2	11	8.6	9.5	8	10	7	9
Silver	EPA 6010B	0.323	0.3			2.1	0.4 U		0.4 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U
Vanadium	EPA 6010B	56,100	0.3			42.5	58.7		49.1	40.2	38.9	43.5	41.1	37.5	52.5	38.7	37.1	50.5	38.5	41.8	38	43.2	40.1	48.8
Zinc	EPA 6010B	101	0.6			50.7	47		26.7	17.8	24.5	19.7	30.4	20.1	31.4	21.7	21.9	32.4	25.8	22.8	21.2	25.8	21.8	23.8
Petroleum Hydrocarbons (mg/kg)																								
TPH - Diesel Range	NWTPH-Dx	2,000	5.0																					
TPH - Motor Oil Range	NWTPH-Dx	2,000	10.0																					

Notes:
Re. = Reanalysis

Table 5-2 Soil Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	DP-SY-1-1	DP-SY-1-5	DP-SY-1-10	DP-SY-2-1	DP-SY-2-5	DP-SY-2-10	DP-SY-3-1	DP-SY-3-5	DP-SY-3-10	DP-SY-4-1	DP-SY-4-5	DP-SY-4-10	DP-SY-5-1	DP-SY-5-5	DP-SY-5-10	DP-SY-5-10	DP-SY-6-1	DP-SY-6-5	DP-SY-6-10	DP-SY-7-1	DP-SY-7-5	DP-SY-7-5	DP-SY-7-10	DP-SY-7-10	DP-SY-8-1	DP-SY-8-5
			Location:	DP-SY-01	DP-SY-01	DP-SY-01	DP-SY-02	DP-SY-02	DP-SY-02	DP-SY-03	DP-SY-03	DP-SY-03	DP-SY-04	DP-SY-04	DP-SY-04	DP-SY-05	DP-SY-05	DP-SY-05	DP-SY-05 Re.	DP-SY-06	DP-SY-06	DP-SY-06	DP-SY-07	DP-SY-07	DP-SY-07 Re.	DP-SY-07	DP-SY-07 Re.	DP-SY-08	DP-SY-08
			Depth (ft bgs):	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	4 - 5	9 - 10	9 - 10	0 - 1	4 - 5
			Sample Date:	3/8/2005	3/8/2005	3/8/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005
VOCs (µg/kg)																													
Chloromethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Bromomethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Vinyl Chloride	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	9.5	1 U	1 U	6.5	1 U	1.2 U	11		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Chloroethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Methylene Chloride	EPA 8260B	2.0		2.1 U	2.5 U	2.6 U	2.3 U	2.1 U	2 U	2.6 U	2.1 U	2 U	2 U	2.1 U	2.7 U	5.7	2.4 U	2.6 U		2.2 U	2.4 U	2.8 U	2.1 U	2.3 U		2.3 U		2.2 U	2.8 U
Acetone	EPA 8260B	5.0		5.2 U	150	56	5.9 U	5.2 U	47	6.4 U	5.3 U	26 U	5 U	5.2 U	34 U	5.1 U	6.1 U	110		9 U	6 U	74	5.3 U	8.1 U		11 U		5.4 U	78
Carbon Disulfide	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 UJ	1 UJ	1 UJ	1.3 UJ	1.1 UJ	1 UJ	1 UJ	1 UJ	1.4 UJ	1 UJ	1.2 U	1.4		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
1,1-Dichloroethene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
1,1-Dichloroethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
trans-1,2-Dichloroethene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.9		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
cis-1,2-Dichloroethene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	2.5	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	48		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Chloroform	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
1,2-Dichloroethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
2-Butanone	EPA 8260B	5.0		5.2 U	37	11	5.9 U	5.2 U	13	6.4 U	5.3 U	6.2	5 U	5.2 U	9.3	5.1 U	6.1 U	19		5.5 U	6 U	13	5.2 U	5.6 U		5.7 U		5.4 U	16
1,1,1-Trichloroethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Carbon Tetrachloride	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Vinyl Acetate	EPA 8260B	5.0		5.2 U	6.2 U	6.4 U	5.9 UJ	5.2 UJ	4.9 UJ	6.4 UJ	5.3 UJ	5.1 UJ	5 UJ	5.2 UJ	6.8 UJ	5.1 UJ	6.1 U	6.5 U		5.5 U	6 U	7.1 UJ	5.2 U	5.6 U		5.7 U		5.4 U	7 U
Bromodichloromethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
1,2-Dichloropropane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
cis-1,3-Dichloropropene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Trichloroethene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	2	1 U	1 U	1.6	4.5	1.7	1 U	1 U	1.4 U	3.7	4.5	19		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Dibromochloromethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
1,1,2-Trichloroethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Benzene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
trans-1,3-Dichloropropene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
2-Chloroethylvinylether	EPA 8260B	5.0		5.2 U	6.2 U	6.4 U	5.9 U	5.2 U	4.9 U	6.4 U	5.3 U	5.1 U	5 U	5.2 U	6.8 U	5.1 U	6.1 U	6.5 U		5.5 U	6 U	7.1 U	5.2 U	5.6 U		5.7 U		5.4 U	7 U
Bromoform	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Methyl isobutyl ketone	EPA 8260B	5.0		5.2 U	6.2 U	6.4 U	5.9 UJ	5.2 UJ	4.9 UJ	6.4 UJ	5.3 UJ	5.1 UJ	5 UJ	5.2 UJ	6.8 UJ	5.1 UJ	6.1 U	6.5 U		5.5 U	6 U	7.1 U	5.2 U	5.6 U		5.7 U		5.4 U	7 U
2-Hexanone	EPA 8260B	5.0		5.2 U	6.2 U	6.4 U	5.9 U	5.2 U	4.9 U	6.4 U	5.3 U	5.1 U	5 U	5.2 U	6.8 U	5.1 U	6.1 U	6.5 U		5.5 U	6 U	7.1 U	5.2 U	5.6 U		5.7 U		5.4 U	7 U
Tetrachloroethene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	2.7	3.6	1 U	1.1	1.7	1.4 U	110	46	57		1.1 U	3.4	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
1,1,2,2-Tetrachloroethane	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 UJ
Toluene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Chlorobenzene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Ethylbenzene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Styrene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 UJ	1 UJ	1 UJ	1.3 UJ	1.1 UJ	1 UJ	1 UJ	1 UJ	1.4 UJ	1 UJ	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
Trichlorofluoromethane	EPA 8260B	1.0		1 UJ	1.2 UJ	1.3 UJ	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
1,1,2-Trichlorotrifluoroethane	EPA 8260B	2.0		2.1 U	2.5 U	2.6 U	2.3 U	2.1 U	2 U	2.6 U	2.1 U	2 U	2 U	2.1 U	2.7 U	2 U	2.4 U	2.6 U		2.2 U	2.4 U	2.8 U	2.1 U	2.3 U		2.3 U		2.2 U	2.8 U
m,p-Xylene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
o-Xylene	EPA 8260B	1.0		1 U	1.2 U	1.3 U	1.2 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1 U	1.4 U	1 U	1.2 U	1.3 U		1.1 U	1.2 U	1.4 U	1 U	1.1 U		1.1 U		1.1 U	1.4 U
SVOCs (µg/kg)																													
Phenol	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
bis(2-Chloroethyl)ether	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
2-Chlorophenol	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
1,3-Dichlorobenzene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
1,4-Dichlorobenzene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Benzyl Alcohol	EPA 8270C	330		330 UJ	320 UJ	330 UJ	350 UJ	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 UJ	320 U		330 UJ	330 U	320 U	320 U	320 UJ	320 U	320 UJ		320 UJ	330 UJ
1,2-Dichlorobenzene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
2-Methylphenol	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
4-Methylphenol	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
N-Nitroso-Di-N-Propylamine	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
Hexachloroethane	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Nitrobenzene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Isophorone	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
2-Nitrophenol	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
2,4-Dimethylphenol	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Benzoic Acid	EPA 8270C	670		660 U	650 U	660 U	700 U	640 U	650 U	660 U	630 U	650 U	660 U	650 U	660 U	640 U	630 U	640 U		660 U	660 U	650 U	630 U	630 U	630 U	640 U		650 UJ	660 U
bis(2-Chloroethoxy)methane	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
2,4-Dichlorophenol	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
1,2,4-Trichlorobenzene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Naphthalene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
4-Chloroaniline	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
Hexachlorobutadiene	EPA 8270C	67		66 U	65 U	66 U	70 U	340	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
4-Chloro-3-methylphenol	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
2-Methylnaphthalene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Hexachlorocyclopentadiene	EPA 8270C	330		330 UJ	320 UJ	330 UJ	350 UJ	320 UJ	330 UJ	330 UJ	310 UJ	330 UJ	330 UJ	330 UJ	330 UJ	320 UJ	320 UJ	320 UJ		330 UJ	330 UJ	320 UJ	320 UJ	320 UJ	320 UJ	320 UJ		320 UJ	330 UJ
2,4,6-Trichlorophenol	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
2,4,5-Trichlorophenol	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
2-Chloronaphthalene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
2-Nitroaniline	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
Dimethylphthalate	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Acenaphthylene	EPA 8270C	67		66 U	65 U	66 U	75	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
3-Nitroaniline	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
Acenaphthene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
2,4-Dinitrophenol	EPA 8270C	670		660 U	650 U	660 U	700 U	640 U	650 U	660 U	630 U	650 U	660 U	650 U	660 U	640 U	630 U	640 U		660 U	660 U	650 U	630 U	630 U	630 UJ	640 U		650 UJ	660 U
4-Nitrophenol	EPA 8270C	330		330 U	320 U	330 U	350 U	320 UJ	330 UJ	330 UJ	310 UJ	330 UJ	330 UJ	330 UJ	330 UJ	320 UJ	320 U	320 UJ		330 U	330 UJ	320 UJ	320 UJ	320 U	320 U	320 U		320 UJ	330 U
Dibenzofuran	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U

Table 5-2 Soil Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	DP-SY-1-1	DP-SY-1-5	DP-SY-1-10	DP-SY-2-1	DP-SY-2-5	DP-SY-2-10	DP-SY-3-1	DP-SY-3-5	DP-SY-3-10	DP-SY-4-1	DP-SY-4-5	DP-SY-4-10	DP-SY-5-1	DP-SY-5-5	DP-SY-5-10	DP-SY-5-10	DP-SY-6-1	DP-SY-6-5	DP-SY-6-10	DP-SY-7-1	DP-SY-7-5	DP-SY-7-5	DP-SY-7-10	DP-SY-7-10	DP-SY-8-1	DP-SY-8-5
			Location:	DP-SY-01	DP-SY-01	DP-SY-01	DP-SY-02	DP-SY-02	DP-SY-02	DP-SY-03	DP-SY-03	DP-SY-03	DP-SY-04	DP-SY-04	DP-SY-04	DP-SY-05	DP-SY-05	DP-SY-05	DP-SY-05 Re.	DP-SY-06	DP-SY-06	DP-SY-06	DP-SY-07	DP-SY-07	DP-SY-07 Re.	DP-SY-07	DP-SY-07 Re.	DP-SY-08	DP-SY-08
			Depth (ft bgs):	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	4 - 5	9 - 10	9 - 10	0 - 1	4 - 5
			Sample Date:	3/8/2005	3/8/2005	3/8/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005	3/7/2005
SVOCs, continued (µg/kg)																													
2,6-Dinitrotoluene	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
2,4-Dinitrotoluene	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
Diethylphthalate	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
4-Chlorophenyl-phenylether	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Fluorene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
4-Nitroaniline	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
4,6-Dinitro-2-Methylphenol	EPA 8270C	670		660 UJ	650 UJ	660 UJ	700 U	640 U	650 U	660 U	630 U	650 U	660 U	650 U	660 U	640 U	630 U	640 U		660 U	660 U	650 U	630 U	630 U	630 U	640 U		650 U	660 U
N-Nitrosodiphenylamine	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
4-Bromophenyl-phenylether	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Hexachlorobenzene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Pentachlorophenol	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
Phenanthrene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Carbazole	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Anthracene	EPA 8270C	67		66 U	65 U	66 U	72	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Di-n-Butylphthalate	EPA 8270C	67		66 U	65 U	66 U	180	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		84	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Fluoranthene	EPA 8270C	67		66 U	65 U	66 U	510	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Pyrene	EPA 8270C	67		66 U	65 U	66 U	520	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Butylbenzylphthalate	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
3,3'-Dichlorobenzidine	EPA 8270C	330		330 U	320 U	330 U	350 U	320 U	330 U	330 U	310 U	330 U	330 U	330 U	330 U	320 U	320 U	320 U		330 U	330 U	320 U	320 U	320 U	320 U	320 U		320 U	330 U
Benzo(a)anthracene	EPA 8270C	67		66 U	65 U	66 U	180	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
bis(2-Ethylhexyl)phthalate	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		100	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Chrysene	EPA 8270C	67		66 U	65 U	66 U	240	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 U	63 U	64 U		65 U	66 U
Di-n-octylphthalate	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U		65 U	66 U
Benzo(b)fluoranthene	EPA 8270C	67		66 U	65 U	66 U	230	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U		65 U	66 U
Benzo(k)fluoranthene	EPA 8270C	67		66 U	65 U	66 U	210	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U		65 U	66 U
Benzo(a)pyrene	EPA 8270C	67		66 U	65 U	66 U	230	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U		65 U	66 U
Indeno(1,2,3-cd)pyrene	EPA 8270C	67		66 U	65 U	66 U	110	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U		65 U	66 U
Dibenz(a,h)anthracene	EPA 8270C	67		66 U	65 U	66 U	70 U	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U		65 U	66 U
Benzo(g,h,i)perylene	EPA 8270C	67		66 U	65 U	66 U	86	64 U	65 U	66 U	63 U	65 U	66 U	65 U	66 U	64 U	63 U	64 U		66 U	66 U	65 U	63 U	63 UJ	63 UJ	64 U		65 U	66 U
Naphthalene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	21 U	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
2-Methylnaphthalene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	21 U	6.4 U	6.5 U	6.6 U	21	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	11	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Acenaphthylene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	120	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Acenaphthene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	59	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Fluorene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	21 U	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Phenanthrene	EPA 8270SIM	6.7		6.6 U	7.8	12	34	6.4 U	6.5 U	6.6 U	14	9.2	6.6 U	17	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	22	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	7.8	11
Anthracene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	99	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Fluoranthene	EPA 8270SIM	6.7		6.6 U	10	12	510	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	7.9	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	41	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	13	21
Pyrene	EPA 8270SIM	6.7		13	13	9.9	580	6.4 U	6.5 U	6.6 U	6.3 U	7.2	8.6	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	53	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	16	18
Benzo(a)anthracene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	210	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	9.1	7.3
Chrysene	EPA 8270SIM	6.7		7.3	7.8	10	240	6.4 U	6.5 U	6.6 U	6.3 U	11	9.3	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	30	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	12	8.6
Benzo(b)fluoranthene	EPA 8270SIM	6.7		9.9 J	6.5 U	6.6 U	290	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	14	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	15	7.9
Benzo(k)fluoranthene	EPA 8270SIM	6.7		8.6 J	8.4	6.6 U	170	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	11	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	15	5.3 J
Benzo(a)pyrene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	220	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	7.3	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	33	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	9.7	6.6 U
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	95	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	9.9	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Dibenz(a,h)anthracene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	30	6.4 UJ	6.5 UJ	6.6 UJ	6.3 UJ	6.5 U	6.6 UJ	6.5 UJ	6.6 UJ	6.4 UJ	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Benzo(g,h,i)perylene	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	82	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	13	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
Dibenzofuran	EPA 8270SIM	6.7		6.6 U	6.5 U	6.6 U	21 U	6.4 U	6.5 U	6.6 U	6.3 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	6.3 U	6.4 U	6.4 U	20 U	6.6 U	6.5 U	6.3 U	6.3 U	6.3 U	6.4 U	6.4 U	6.5 U	6.6 U
PCBs (µg/kg)																													
Aroclor 1016	EPA 8082	33.0		70 U	33 U	32 U	110 U	33 U	32 U	33 U	32 U	33 U	100 U	32 U	33 U	33 U	32 U	33 U		78 U	32 U	32 U	33 U	33 U		33 U		33 U	32 U
Aroclor 1016/1242	EPA 8082	33.0		70 U	33 U	32 U	110 U	33 U	32 U	33 U	32 U	33 U	100 U	32 U	33 U	33 U	32 U	33 U		78 U	32 U	32 U	33 U	33 U		33 U		33 U	32 U
Aroclor 1248	EPA 8082	33.0		70 U	33 U	32 U	110 U	33 U	32 U	33 U	32 U	33 U	100 U	32 U	33 U	33 U	32 U	33 U		78 U	32 U	32 U	33 U	33 U		33 U		33 U	32 U
Aroclor 1254	EPA 8082	33.0		130	33 U	32 U	230	33 U	32 U	90	32 U	49	330	80	33 U	33 U	32 U	33 U		230	32 U	32 U	33 U	33 U		33 U		63	32 U
Aroclor 1260	EPA 8082	33.0		70 U	33 U	32 U	140	33 U	32 U	73	32 U	33 J	210	45	33 U	33 U	32 U	33 U		77 J	32 U	32 U	33 U	33 U		33 U		41	32 U
Aroclor 1221	EPA 8082	33.0		70 U	33 U	32 U	110 U	33 U	32 U	33 U	32 U	33 U	100 U	32 U	33 U	33 U	32 U	33 U		78 U	32 U	32 U	33 U	33 U		33 U		33 U	32 U
Aroclor 1232	EPA 8082	33.0		70 U	33 U	32 U	110 U	33 U	32 U	33 U	32 U	33 U	100 U	32 U	33 U	33 U	32 U	33 U		78 U	32 U	32 U	33 U	33 U		33 U		33 U	32 U
Total PCB	EPA 8082	33.0		130	33 U	32 U	370	33 U	32 U	163	32 U	82 J	540	125	33 U	33 U	32 U	33 U		307 J	32 U	32 U	33 U	33 U		33 U		104	32 U
Inorganics (mg/kg)																													
Aluminum	EPA 6010B	5.0		9080	19400	16700	13700	10000	22500	8830	8860	12600	9430	9520	10400	7750	10200	11800		10300	10700	16500	9070	8730		11600		10800	17200
Antimony	EPA 6010B	5.0		5 UJ	7 UJ	6 UJ	5 UJ	6 UJ	7 UJ	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	6 UJ	5 UJ	7 UJ	6 UJ		5 UJ	6 UJ	6 UJ	5 UJ	5 UJ		6 UJ		6 UJ	7 UJ
Arsenic	EPA 6010B	5.0		5 U	7 U	6 U	5 U	6 U	7 U	5 U	6 U	5 U	5 U	5 U	6 U	5 U	7 U	6 U		7	6 U	6 U	5 U	5 U		6 U		6 U	8
Beryllium	EPA 6010B	0.1		0.1	0.3	0.2	0.14	0.1	0.3	0.1	0.1 U	0.2	0.1	0.1	0.1	0.1	0.1 U	0.1		0.1	0.1 U	0.2	0.1 U	0.1		0.1		0.1	0.3
Cadmium	EPA 6010B	0.2		0.2 U	0.3	0.3	0.4	0.2 U	0.3 U	0.2 U	0.2 U	0.2	0.4	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U		4.3	0.2 U	0.2 U	0.2 U	0.2 U		0.2 U		0.8	0.3 U
Chromium	EPA 6010B	0.5		14.5	19	17	27.4 J	52.1 J	21.8 J	15.1 J	9 J	18 J	18.3 J	14 J	12.1 J	11.7 J	11.4 J	13.2 J		15.3 J	19.5 J	16.1 J	10.5 J	9.9 J		13.5 J		15 J	19.5 J
Chromium(VI)	SM3500CrD	0.1		0.118 U	0.147 U	0.132 U	0.114 UJ	0.11 UJ	0.122 UJ	0.104 UJ	0.118 UJ	0.128 UJ	0.106 UJ	0.105 UJ	0.131 UJ	0.117 UJ	0.117 UJ	0.106 UJ											
Copper	EPA 6010B	0.2		12.2	30	24.4	32.9	13.5	31.5	12.8	10.8	20.6	17.7	12.9	13.6	9.1	13.2	15.5		25.1	12.8	24.2	11.3	9.2		16.5		25.3	32
Lead	EPA 6010B	2.0		5	15	10	6	4	10	4	2	6	9	3	2	2 U	3	3 U		16	3	4	2	2 U		2 U		9	11
Magnesium	EPA 6010B	5.0		3140	5040	4230	4670	2200	5460	3080	1930	3630	2650	2580	2370	2550	2150	2560		2950	2420	3640	2070	2200		2450		2980	4750
Manganese	EPA 6010B	0.1		158	248	230	231	94.3	370	142	73.4	180	141	131	136	110	77.9	150		157	87.5	180	86.8	161		228		148	184
Mercury	EPA 7471A	0.05		0.05 U	0.07 U	0.06 U	0.04	0.05 U	0.07	0.05	0.05 U	0.06	0.09	0.04 U	0.05 U	0.04 U	0.05 U	0.05 U		0.06 U	0.05 U	0.05 U	0.04 U	0.04 U		0.05 U		0.08	0.1
Nickel	EPA 6010B	1.0		14	16	13	19.7	8	17	11	6	13	13	13	8	8.7	10	9		12	7	12	7	8		9		12	15
Selenium	EPA 6010B	5.0		5 U	7 U	6 U	5 U	6 U	7 U	5 U	6 U	5 U	5 U	5 U	6 U	5 U	7 U	6 U		5 U	6 U	6 U	5 U	5 U		6 U		6 U	7 U
Silver	EPA 6010B	0.3		0.3 U	0.4 U	0.4 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.4 U	0.4 U		7.1	0.4 U	0.4 U	0.3 U	0.3 U		0.4 U		2.1	0.4 U
Thallium	EPA 6010B	5.0		5 U	7 U	6 U	5 U	6 U	7 U	5 U	6 U	5 U	5 U	5 U	6 U	5 U	7 U	6 U		5 U	6 U	6 U	5 U	5 U		6 U		6 U	7 U
Vanadium	EPA 6010B	0.3		36	55.9	49.7	45.6	36.5	58.8	37.3	36.5	54.1	41.3	39.8	44.6	39.4	41.8	48		41.4	38.2	50	36.1	36.8		46.3		42.5	58.7
Zinc	EPA 6010B	0.6		33.5	53.7	42.9	50.4	23.3	64.3	32.4	17	35.3	48.7	27.5	23.7	23.5	22.5	24.1		83.3	22.5	27.3	19.9	22.5		22.5		50.7	47
Petroleum Hydrocarbons (mg/kg)																													
TPH - Gasoline Range	NWTPH-Gx	5																											
TPH - Diesel Range	NWTPH-Dx	5																											
TPH - Motor Oil Range	NWTPH-Dx	10																											

Table 5-2 Soil Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID: / Location: / Depth (ft bgs): / Sample Date:	DP-SY-8-5 / DP-SY-08 Re. / 4 - 5 / 3/7/2005	DP-SY-8-10 / DP-SY-08 / 9 - 10 / 3/7/2005	DP-SY-9-1 / DP-SY-09 / 0 - 1 / 3/8/2005	DP-SY-9-5 / DP-SY-09 / 4 - 5 / 3/8/2005	DP-SY-9-10 / DP-SY-09 / 9 - 10 / 3/8/2005	DP-SY-10-1 / DP-SY-10 / 0 - 1 / 3/8/2005	DP-SY-10-5 / DP-SY-10 / 4 - 5 / 3/8/2005	DP-SY-10-10 / DP-SY-10 / 9 - 10 / 3/8/2005	DP-SY-11-1 / DP-SY-11 / 0 - 1 / 3/8/2005	DP-SY-11-5 / DP-SY-11 / 4 - 5 / 3/8/2005	DP-SY-11-10 / DP-SY-11 / 9 - 10 / 3/8/2005	DP-SY-12-1 / DP-SY-12 / 0 - 1 / 3/8/2005	DP-SY-12-5 / DP-SY-12 / 4 - 5 / 3/8/2005	DP-SY-12-10 / DP-SY-12 / 9 - 10 / 3/8/2005	SY-PL2-601A-1.5 / PL2-601A / 0 - 1.5 / 3/1/2005	SY-PL2-601A-5 / PL2-601A / 3.5 - 5 / 3/1/2005	SY-PL2-601A-10 / PL2-601A / 8.5 - 10 / 3/1/2005	SY-PL2-602A-1.5 / PL2-602A / 0 - 1.5 / 3/1/2005	SY-PL2-602A-5 / PL2-602A / 3.5 - 5 / 3/1/2005	SY-PL2-602A-10 / PL2-602A / 8.5 - 10 / 3/1/2005	SY-PL2-603A-1.5 / PL2-603A / 0 - 1.5 / 2/28/2005	SY-PL2-603A-5 / PL2-603A / 3.5 - 5 / 2/28/2005	SY-PL2-603A-10 / PL2-603A / 8.5 - 10 / 2/28/2005
VOCs (µg/kg)																										
Chloromethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Bromomethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Vinyl Chloride	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	2.2	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	3.6	1.1 U	1 U	1.1 U
Chloroethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	3.9	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Methylene Chloride	EPA 8260B	2.0		2.7 U	2.6 U	2 U	2.5 U	2.4 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.7 U	2 U	2.1 U	2.5 U	2 U	2 U	2.5 U	2 U	2.3 U	2.8 U	2.1 U	2 U	2.2 U
Acetone	EPA 8260B	5.0		140	64	6.2	6.3 U	120	5.4 U	5.4 U	7.5	6.4	6.9	210	5 U	5.6	37	5.1 U	6.1 U	6.1 U	5.1 U	5.7 U	160	5.3 U	5 U	5.5 U
Carbon Disulfide	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	5.7	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 UJ	1 UJ	2.3 J	1 UJ	1.1 UJ	5 J	1.1 U	1 U	1.1 U
1,1-Dichloroethene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
1,1-Dichloroethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	6.1	1 U	1 U	4.6	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
trans-1,2-Dichloroethene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.5	1.1 U	1 U	1.1 U
cis-1,2-Dichloroethene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	3.4	1 U	1 U	2	1 U	1 U	1.2 U	1 U	3.3	21	1.1 U	1 U	1.1 U
Chloroform	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
1,2-Dichloroethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
2-Butanone	EPA 8260B	5.0		29	12	5 U	6.3 U	25	5.4 U	5.4 U	5.2 U	5.4 U	5.5 U	54	5 U	5.2 U	7.3	5 U	5 U	6.1 U	5.1 U	5.7 U	48	5.3 U	5 U	5.5 U
1,1,1-Trichloroethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.2	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Carbon Tetrachloride	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Vinyl Acetate	EPA 8260B	5.0		6.8 U	6.5 U	5 U	6.3 U	5.9 U	5.4 U	5.4 U	5.2 U	5.4 U	5.5 U	6.8 U	5 U	5.2 U	6.2 U	5 UJ	5 UJ	6.1 UJ	5.1 UJ	5.7 UJ	7.1 UJ	5.3 U	5 U	5.5 U
Bromodichloromethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
1,2-Dichloropropane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
cis-1,3-Dichloropropene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Trichloroethene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.2	3.5	1 U	4	1.4	1.4 U	1 U	1 U	2.1	2	1.4	1.2 U	13	130	3.4	1.1 U	1 U	1.1 U
Dibromochloromethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
1,1,2-Trichloroethane	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Benzene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	12	1.1 U	1 U	1.1 U
trans-1,3-Dichloropropene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
2-Chloroethylvinylether	EPA 8260B	5.0		6.8 U	6.5 U	5 U	6.3 U	5.9 U	5.4 U	5.4 U	5.2 U	5.4 U	5.5 U	6.8 U	5 U	5.2 U	6.2 U	5 U	5 U	6.1 U	5.1 U	5.7 U	7.1 U	5.3 U	5 U	5.5 U
Bromoform	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Methyl isobutyl ketone	EPA 8260B	5.0		6.8 U	6.5 U	5 U	6.3 U	5.9 U	5.4 U	5.4 U	5.2 U	5.4 U	5.5 U	6.8 U	5 U	5.2 U	6.2 U	5 UJ	5 UJ	6.1 UJ	5.1 UJ	5.7 UJ	7.1 UJ	5.3 U	5 U	5.5 U
2-Hexanone	EPA 8260B	5.0		6.8 U	6.5 U	5 U	6.3 U	5.9 U	5.4 U	5.4 U	5.2 U	5.4 U	5.5 U	6.8 U	5 U	5.2 U	6.2 U	5 U	5 U	6.1 U	5.1 U	5.7 U	7.1 U	5.3 U	5 U	5.5 U
Tetrachloroethene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	2	1 U	3.1	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	3.7	1.4 U	1.1 U	1 U	1.1 U
1,1,2,2-Tetrachloroethane	EPA 8260B	1.0		1.4 UJ	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Toluene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	2.2	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	8.5	1.1 U	1 U	1.1 U
Chlorobenzene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
Ethylbenzene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 UJ	1 UJ	1.2 UJ	1 UJ	1.1 UJ	1.4 UJ	1.1 U	1 U	1.1 U
Styrene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 UJ	1 UJ	1.2 UJ	1 UJ	1.1 UJ	1.4 UJ	1.1 U	1 U	1.1 U
Trichlorofluoromethane	EPA 8260B	1.0		1.4 U	1.3 U	1 UJ	1.3 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1 UJ	1.1 UJ	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
1,1,2-Trichlorotrifluoroethane	EPA 8260B	2.0		2.7 U	2.6 U	2 U	2.5 U	2.4 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.7 U	2 U	2.1 U	2.5 U	2 U	2 U	2.5 U	2 U	2.3 U	2.8 U	2.1 U	2 U	2.2 U
m,p-Xylene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
o-Xylene	EPA 8260B	1.0		1.4 U	1.3 U	1 U	1.3 U	1.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.4 U	1 U	1 U	1.2 U	1 U	1 U	1.2 U	1 U	1.1 U	1.4 U	1.1 U	1 U	1.1 U
SVOCs (µg/kg)																										
Phenol	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
bis(2-Chloroethyl)ether	EPA 8270C	67			64 U	66 U	66 U	65 U													64 UJ	66 UJ	64 UJ	63 U	65 U	64 U
2-Chlorophenol	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
1,3-Dichlorobenzene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
1,4-Dichlorobenzene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Benzyl Alcohol	EPA 8270C	330			320 UJ	330 UJ	330 UJ	330 UJ													320 UJ	330 UJ	320 UJ	320 U	330 U	320 U
1,2-Dichlorobenzene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
2-Methylphenol	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
2,2'-Oxybis(1-Chloropropane)	EPA 8270C	67			64 U	66 U	66 U	65 U													64 UJ	66 UJ	64 UJ	63 U	65 U	64 U
4-Methylphenol	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
N-Nitroso-Di-N-Propylamine	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
Hexachloroethane	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Nitrobenzene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 UJ	66 UJ	64 UJ	63 U	65 U	64 U
Isophorone	EPA 8270C	67			64 U	66 U	66 U	65 U													64 UJ	66 UJ	64 UJ	63 U	65 U	64 U
2-Nitrophenol	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
2,4-Dimethylphenol	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Benzoic Acid	EPA 8270C	670			640 UJ	660 U	660 U	650 U													640 U	660 U	640 U	630 U	650 U	640 U
bis(2-Chloroethoxy)methane	EPA 8270C	67			64 U	66 U	66 U	65 U													64 UJ	66 UJ	64 U	63 U	65 U	64 U
2,4-Dichlorophenol	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
1,2,4-Trichlorobenzene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Naphthalene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
4-Chloroaniline	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
Hexachlorobutadiene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
4-Chloro-3-methylphenol	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
2-Methylnaphthalene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Hexachlorocyclopentadiene	EPA 8270C	330			320 UJ	330 UJ	330 UJ	330 UJ													320 UJ	330 UJ	320 UJ	320 UJ	330 UJ	320 UJ
2,4,6-Trichlorophenol	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
2,4,5-Trichlorophenol	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
2-Chloronaphthalene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
2-Nitroaniline	EPA 8270C	330			320 U	330 U	330 U	330 U													320 UJ	330 UJ	320 UJ	320 U	330 U	320 U
Dimethylphthalate	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Acenaphthylene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
3-Nitroaniline	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
Acenaphthene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
2,4-Dinitrophenol	EPA 8270C	670			640 UJ	660 U	660 U	650 U													640 U	660 U	640 U	630 U	650 U	640 U
4-Nitrophenol	EPA 8270C	330			320 UJ	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
Dibenzofuran	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U

Table 5-2 Soil Analysis Results
South Yard Area
Boeing Plant 2

Constituent	Analytical Method	Laboratory RL	Sample ID:	DP-SY-8-5	DP-SY-8-10	DP-SY-9-1	DP-SY-9-5	DP-SY-9-10	DP-SY-10-1	DP-SY-10-5	DP-SY-10-10	DP-SY-11-1	DP-SY-11-5	DP-SY-11-10	DP-SY-12-1	DP-SY-12-5	DP-SY-12-10	SY-PL2-601A-1.5	SY-PL2-601A-5	SY-PL2-601A-10	SY-PL2-602A-1.5	SY-PL2-602A-5	SY-PL2-602A-10	SY-PL2-603A-1.5	SY-PL2-603A-5	SY-PL2-603A-10
			Location:	DP-SY-08 Re.	DP-SY-08	DP-SY-09	DP-SY-09	DP-SY-09	DP-SY-10	DP-SY-10	DP-SY-10	DP-SY-11	DP-SY-11	DP-SY-11	DP-SY-12	DP-SY-12	DP-SY-12	PL2-601A	PL2-601A	PL2-601A	PL2-602A	PL2-602A	PL2-602A	PL2-603A	PL2-603A	PL2-603A
			Depth (ft bgs):	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1	4 - 5	9 - 10	0 - 1.5	3.5 - 5	8.5 - 10	0 - 1.5	3.5 - 5	8.5 - 10	0 - 1.5	3.5 - 5	8.5 - 10
			Sample Date:	3/7/2005	3/7/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/8/2005	3/1/2005	3/1/2005	3/1/2005	3/1/2005	3/1/2005	3/1/2005	2/28/2005	2/28/2005	2/28/2005
SVOCs, continued (µg/kg)																										
2,6-Dinitrotoluene	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
2,4-Dinitrotoluene	EPA 8270C	330			320 U	330 U	330 U	330 U													320 UJ	330 UJ	320 UJ	320 U	330 U	320 U
Diethylphthalate	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
4-Chlorophenyl-phenylether	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Fluorene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
4-Nitroaniline	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
4,6-Dinitro-2-Methylphenol	EPA 8270C	670			640 U	660 UJ	660 UJ	650 UJ													640 UJ	660 UJ	640 UJ	630 UJ	650 UJ	640 UJ
N-Nitrosodiphenylamine	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
4-Bromophenyl-phenylether	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Hexachlorobenzene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Pentachlorophenol	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
Phenanthrene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	68	64 U
Carbazole	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Anthracene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Di-n-Butylphthalate	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	80	64 U
Fluoranthene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	170	64 U
Pyrene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	180	64 U
Butylbenzylphthalate	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
3,3'-Dichlorobenzidine	EPA 8270C	330			320 U	330 U	330 U	330 U													320 U	330 U	320 U	320 U	330 U	320 U
Benzo(a)anthracene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	78	64 U
bis(2-Ethylhexyl)phthalate	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Chrysene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	91	64 U
Di-n-octylphthalate	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Benzo(b)fluoranthene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Benzo(k)fluoranthene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	84	64 U
Benzo(a)pyrene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	80	64 U
Indeno(1,2,3-cd)pyrene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Dibenz(a,h)anthracene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 U	66 U	64 U	63 U	65 U	64 U
Benzo(g,h,i)perylene	EPA 8270C	67			64 U	66 U	66 U	65 U													64 UJ	66 UJ	64 UJ	63 U	65 U	64 U
Naphthalene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	14	29
2-Methylnaphthalene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	6.5 U	6.4 U
Acenaphthylene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	6.5 U	6.4 U
Acenaphthene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	6.5 U	6.4 U
Fluorene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	6.5 U	6.4 U
Phenanthrene	EPA 8270SIM	6.7			6.4 U	9.9	6.6 U	6.5 U													6.4 U	8.6	6.4 U	14	59	6.4 U
Anthracene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	40	6.4 U
Fluoranthene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	21	150	6.4 U
Pyrene	EPA 8270SIM	6.7			6.4 U	6.6	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	20	140	6.4 U
Benzo(a)anthracene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3	72	6.4 U
Chrysene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	9.5	82	6.4 U
Benzo(b)fluoranthene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	65	6.4 U
Benzo(k)fluoranthene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	56	6.4 U
Benzo(a)pyrene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	22	39	6.3 U	72	6.4 U
Indeno(1,2,3-cd)pyrene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	45	6.4 U
Dibenz(a,h)anthracene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	12 J	6.4 U
Benzo(g,h,i)perylene	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	50	6.4 U
Dibenzofuran	EPA 8270SIM	6.7			6.4 U	6.6 U	6.6 U	6.5 U													6.4 U	6.6 U	6.4 U	6.3 U	6.5 U	6.4 U
PCBs (µg/kg)																										
Aroclor 1016	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Aroclor 1016/1242	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Aroclor 1248	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Aroclor 1254	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Aroclor 1260	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Aroclor 1221	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Aroclor 1232	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Total PCB	EPA 8082	33.0			33 U	33 U	33 U	33 U	32 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	32 U	33 U	32 U	32 U	33 U	33 U	32 U	38 U	35 U	36 U
Inorganics (mg/kg)																										
Aluminum	EPA 6010B	5.0			16500	8840	10400	8400	9950	8560	11900	7630	8110	11400	7790	8320	8650	8730	8500	11900	7870	8400	11800	14400	10600	12800
Antimony	EPA 6010B	5.0			7 UJ	6 UJ	6 UJ	6 UJ	5 UJ	5 UJ	6 UJ	5 UJ	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	6 UJ	5 UJ	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ
Arsenic	EPA 6010B	5.0			7 U	6 U	6 U	6 U	5 U	5 U	6 U	5 U	5 U	6	5 U	5 U	5 U	5 U	5 U	6 U	5 U	5 U	6 U	7	5 U	5 U
Beryllium	EPA 6010B	0.1			0.2	0.1 U	0.1 U	0.1 U	0.12	0.1 U	0.2	0.1	0.1	0.2	0.1 U	0.1 U	0.1 U	0.11	0.1 U	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Cadmium	EPA 6010B	0.2			0.3 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U
Chromium	EPA 6010B	0.5			15.8 J	10.1	11.4	10.5	13.4	10.9	17.1	13.5	11.7	13.7	12.2	14.3	12.9	11.4	10.6	13	12.5	10.3	13.5	21.6 J	20.2 J	25.9 J
Chromium(VI)	SM3500CrD	0.1																								
Copper	EPA 6010B	0.2			25.4	12.2	13.7	13.1	13.1	11.6	22	9	9.4	23.8	11.7	9.9	9.9	12.2	9.2	14.2	9.5	13	17.8	30	13.6	14.7
Lead	EPA 6010B	2.0			4	2 U	3	2 U	4	2	3	2 U	3	4	3	2	2 U	9	2 U	2 U	5	2 U	4	9	4	3
Magnesium	EPA 6010B	5.0			3580	1970	2290	1920	3130	2170	3500	2410	2630	3610	2650	2750	2380	3070	2500	2560	2540	1970	2840	4610 J	5120 J	6410 J
Manganese	EPA 6010B	0.1			230	72	85.2	174	156	83.7	138	118	123	174	134	124	108	165	122	135	123	89	127	230	244	259
Mercury	EPA 7471A	0.05			0.07 U	0.05 U	0.06 U	0.05 U	0.04 U	0.04 U	0.06 U	0.05 U	0.05	0.05 U	0.05 U	0.05 U	0.04 U	0.05 U	0.05 U	0.05 U	0.04 U	0.05 U	0.06 U	0.04 U	0.05	0.04 U
Nickel	EPA 6010B	1.0			12	6	9	7	12.3	7	11	8.3	8.2	11	8.6	9.5	8	10	7	9	8.6	8	10	17 J	23 J	30 J
Selenium	EPA 6010B	5.0			7 U	6 U	6 U	6 U	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U	5 U	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U	5 U
Silver	EPA 6010B	0.3			0.4 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U
Thallium	EPA 6010B	5.0			7 U	6 U	6 U	6 U	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U	5 U	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U	5 U
Vanadium	EPA 6010B	0.3			49.1	40.2	38.9	43.5	41.1	37.5	52.5	38.7	37.1	50.5	38.5	41.8	38	43.2	40.1	48.8	42.1	35	44.2	55.1	38.1	41.7
Zinc	EPA 6010B	0.6			26.7	17.8	24.5	19.7	30.4	20.1	31.4	21.7	21.9	32.4	25.8	22.8	21.2	25.8	21.8	23.8	23.5	17.5	28.5	48.5	29.5	29.4
Petroleum Hydrocarbons (mg/kg)																										
TPH - Gasoline Range	NWTPH-Gx	5																						6.7 U	6.4 U	6.7 U
TPH - Diesel Range	NWTPH-Dx	5																						34	15	16
TPH - Motor Oil Range	NWTPH-Dx	10																						82	78	57

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Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

Figures

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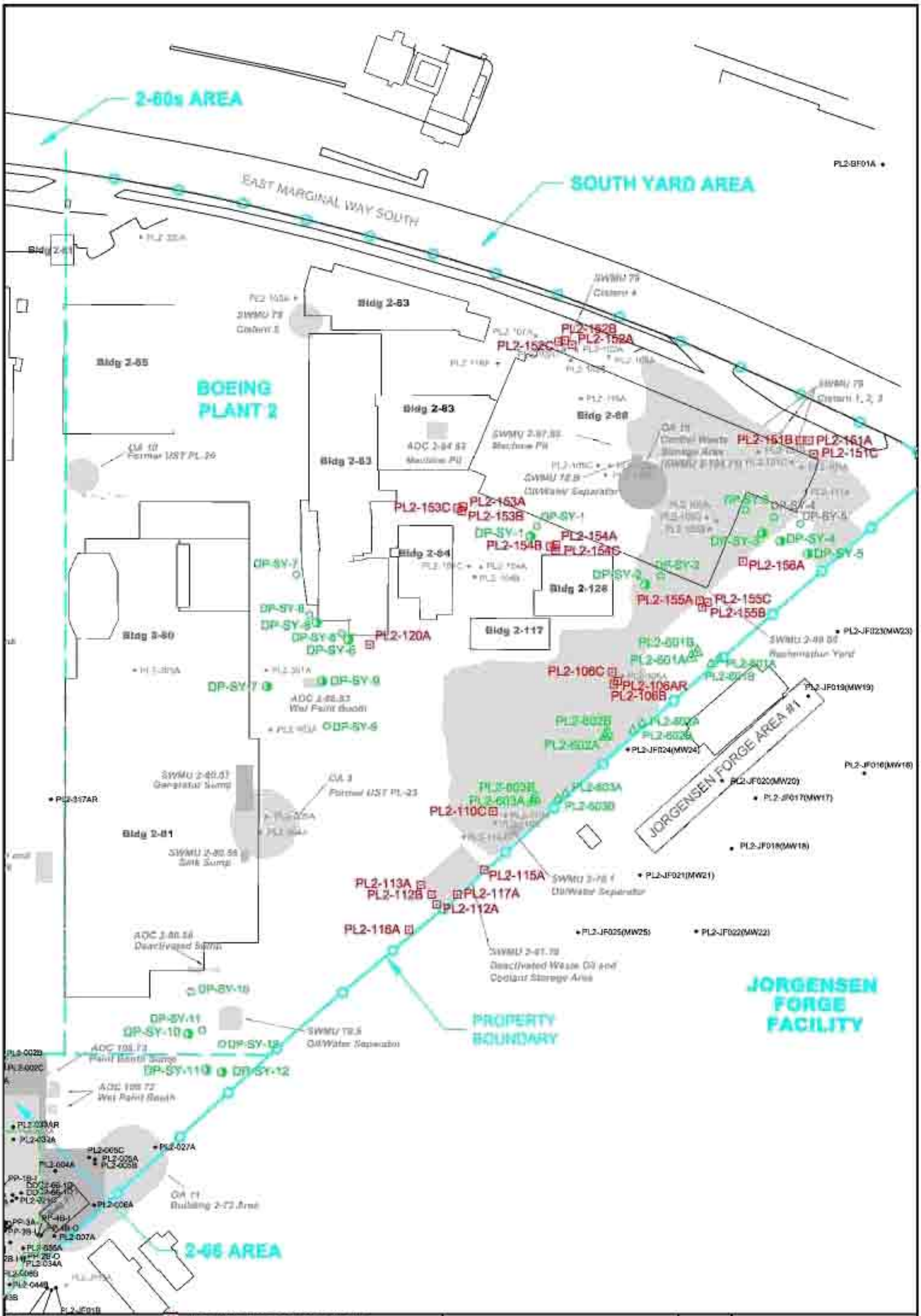
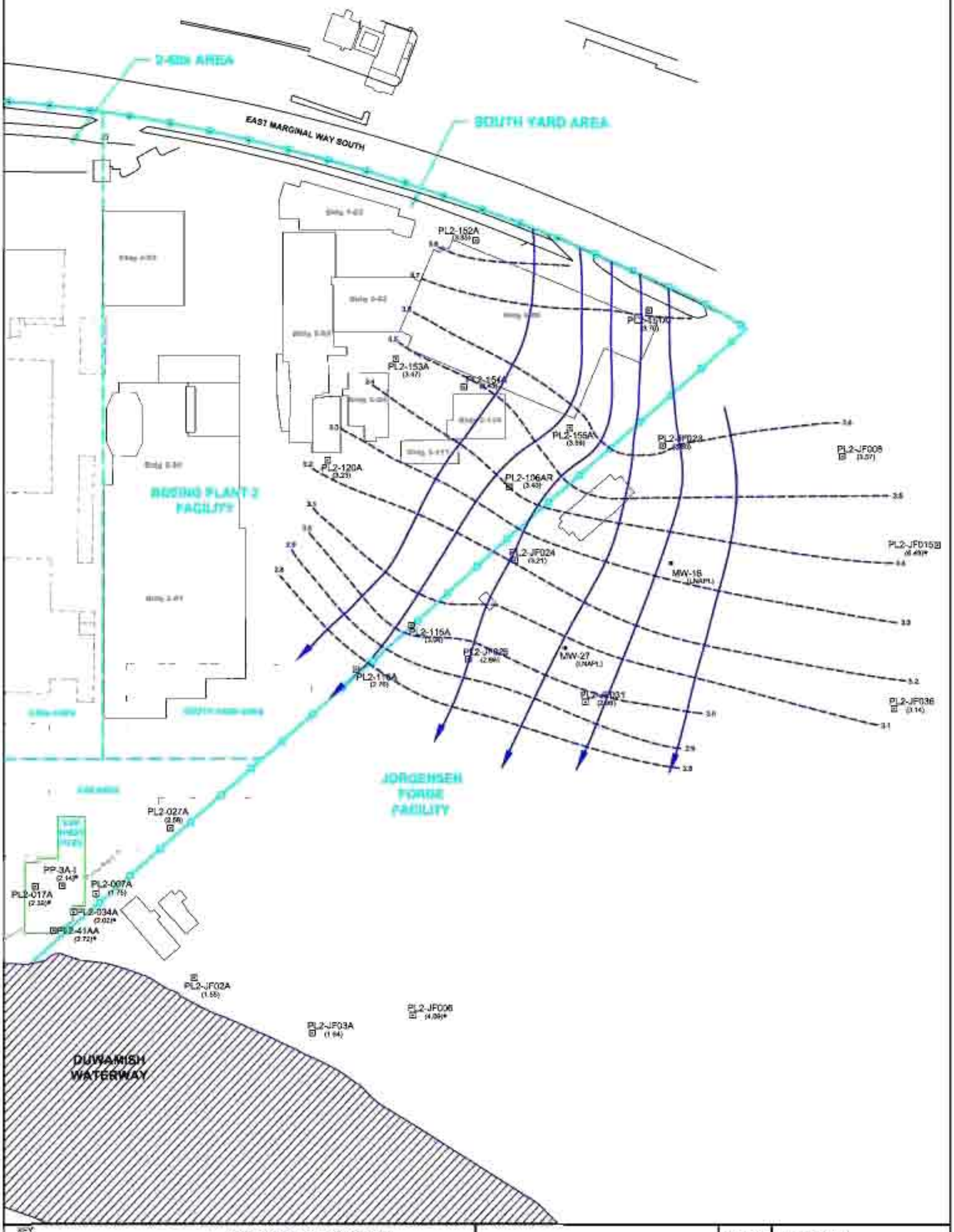

2-60s AREA
SOUTH YARD AREA
EAST MARGINAL WAY SOUTH
BOEING PLANT 2
Bldg 2-61
Bldg 2-65
Bldg 2-63
Bldg 2-68
Bldg 2-64
Bldg 2-128
Bldg 2-117
Bldg 2-60
Bldg 2-81
JORGENSEN FORGE AREA #1
PROPERTY BOUNDARY
JORGENSEN FORGE FACILITY
2-46 AREA
PL2-151B
PL2-151A
PL2-151C
PL2-152B
PL2-152A
PL2-153C
PL2-153A
PL2-153B
PL2-154A
PL2-154B
PL2-154C
PL2-156A
PL2-155A
PL2-155C
PL2-155B
PL2-120A
PL2-108C
PL2-108AR
PL2-108B
PL2-110C
PL2-113A
PL2-112B
PL2-117A
PL2-112A
PL2-115A
PL2-116A
DP-SY-1
DP-SY-2
DP-SY-3
DP-SY-4
DP-SY-5
DP-SY-6
DP-SY-7
DP-SY-8
DP-SY-9
DP-SY-10
DP-SY-11
DP-SY-12
PL2-JF023(MW23)
PL2-JF019(MW19)
PL2-JF024(MW24)
PL2-JF016(MW16)
PL2-JF020(MW20)
PL2-JF017(MW17)
PL2-JF018(MW18)
PL2-JF021(MW21)
PL2-JF025(MW25)
PL2-JF022(MW22)
PL2-027A
PL2-006A
PL2-037A
PL2-034A
PL2-044B
PL2-JF01B
KEY:
WELL SAMPLED FOR ORGANICS AND METALS
ACTUAL NEW WELL LOCATION
ACTUAL DIRECT PUSH LOCATION
PROPOSED NEW WELL LOCATION
PROPOSED DIRECT PUSH LOCATION
EXISTING WELL
ABANDONED WELL
PROPERTY BOUNDARY
AREA BOUNDARY
RCRA UNIT
SCALE: 1" = 100'
291 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027
FIGURE 2-1
SOUTH YARD AREA
GROUNDWATER AND SOIL DATA GAP
SAMPLING LOCATIONS
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
TJA
REVIEWED BY
DCK
DATE
06/22/06



KEY:

- MONITORING WELL WITH DATALOGGERS (GROUNDWATER ELEVATION IN FT. NGVD '29)
- MONITORING WELL WITH LNAPL
- GROUNDWATER ELEVATION CONTOURS (FT NGVD '29)
- GROUNDWATER FLOW DIRECTION
- PROPERTY BOUNDARY
- AREA BOUNDARY
- ANOMALOUS VALUE, SEE REPORT TEXT

SCALE: 1" = 140'

293 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

FIGURE 4-1

MEAN GROUNDWATER ELEVATION CONTOURS IN THE SOUTH YARD - JORGENSEN FORGE VICINITY
FEBRUARY 1, 2005 TO FEBRUARY 4, 2005

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY TK	REVIEWED BY DCK	DATE 06/30/06

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

Attachment A
Geologic Logs and Monitoring Well As-Built Information

RECORD OF BOREHOLE DP-SY-1

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER 013-1646-002.200
LOCATION

DRILLING METHOD:
DRILLING DATE 03/08/05
DRILL RIG Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft (10 20 30 40) / WATER CONTENT (PERCENT) W_p — W — W_l	NOTES WATER LEVELS
0		0.0 - 4.0 Loose to dense, dark reddish brown, silty fine to coarse SAND with some gravel, damp (FILL)	SM			1				1.0 / 1.0		
5		4.0 - 9.0 Medium stiff to stiff, dark grayish black, SILTY CLAY to CLAYEY SILT with some fine to coarse sand, trace organics moist (MARSH DEPOSITS)	CL-ML		4.0	2				1.0 / 1.0		
10		9.0 - 15.0 Compact, dark grayish black, silty fine to coarse SAND, wet. (ALLUVIUM)	SM		9.0	3				1.0 / 1.0		▼
15		Boring completed at 15.0 ft			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-2

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE: 03/18/05
DRILL RIG: Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0		0.0 - 6.0 Loose to compact, dark reddish brown, silty fine to coarse SAND with some gravel, damp. (FILL)	SM			1				1.0 / 1.0		
5						2				1.0 / 1.0		
		6.0 - 9.0 Compact, dark grayish black, silty fine to coarse SAND, moist. (ALLUVIUM)	SM		6.0							
10		9.0 - 12.0 Compact, dark grayish black, SILTY CLAY to CLAYEY SILT, trace organics, moist. (MARSH DEPOSITS)	CL-ML		9.0	3				1.0 / 1.0		▼
		12.0 - 15.0 Compact to dense, dark grayish black, fine to coarse sand with some silt. (ALLUVIUM)	SM		12.0							
15		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-3

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE: 03/07/05
DRILL RIG: Direct Push

DATUM
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft (10 20 30 40) / WATER CONTENT (PERCENT) W_p — W — W_l	NOTES WATER LEVELS
0		0.0 - 7.0 Loose to dense, dark reddish brown, silty fine to coarse SAND, dry. (FILL)	SM			1				1.0/1.0		
5		Becomes moist.				2				1.0/1.0		
		7.0 - 9.0 Loose to compact, dark grayish black, fine sandy SILT to silty fine SAND, wet. (ALLUVIUM)	ML-SM		7.0							
10		9.0 - 15.0 Compact, dark grayish black, fine to coarse SAND with little silt, wet. (ALLUVIUM)	SP-SM		9.0	3				1.0/1.0		▼
15		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-4

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE 03/07/05
DRILL RIG Direct Push

DATUM
AZIMUTH N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft (10 20 30 40) / WATER CONTENT (PERCENT)	NOTES WATER LEVELS
0		0.0 - 0.3 ASPHALT			0.3	1				1.0 / 1.0		
		0.3 - 4.0 Loose, reddish brown, silty fine to coarse SAND, damp. (FILL)	SM									
		4.0 - 9.0 Compact, dark reddish brown to gray, fine to coarse SAND with little silt, trace organics, moist. (ALLUVIUM)	SP-SM		4.0	2				1.0 / 1.0		
10		9.0 - 14.0 Compact, dark grayish black, fine to medium SAND with little silt, wet. (ALLUVIUM)	SP-SM		9.0	3				1.0 / 1.0		
		14.0 - 15.0 Compact, dark grayish black, silty fine to coarse SAND, wet	SP-SM		14.0							
15		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-5

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE 03/07/05
DRILL RIG Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES, not surveyed

ELEVATION
INCLINATION -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0		0.0 - 9.0 Loose, grayish brown, silty fine to coarse SAND, trace organics. (FILL?)	SM			1				1.0 / 1.0		
5						2				1.0 / 1.0		
10		9.0 - 11.0 Compact, dark grayish brown, fine to coarse SAND with little silt, wet. (ALLUVIUM)	SP-SM		9.0	3				1.0 / 1.0		
		11.0 - 13.0 Compact, dark grayish black, medium to coarse SAND with trace silt. (ALLUVIUM)	SP		11.0							
		13.0 - 15.0 Compact, dark grayish brown, silty fine to coarse SAND (ALLUVIUM)	SM		13.0							
15		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-6

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE: 03/07/05
DRILL RIG: Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft (10 20 30 40) / WATER CONTENT (PERCENT) W_p — W^N — W_l	NOTES WATER LEVELS
0		0.0 - 4.0 Loose, reddish brown to gray, silty fine to coarse SAND with little gravel and small cobbles, damp. (FILL)	SM			1				1.0 / 1.0		
5		4.0 - 8.0 Dense, reddish brown, silty fine to coarse SAND, trace gravel, damp to moist. (FILL?)	SM		4.0	2				1.0 / 1.0		
10		8.0 - 15.0 Compact, dark grayish black, silty fine to coarse SAND< trace gravel, moist to wet (ALLUVIUM)	SM		8.0	3				1.0 / 1.0		▼
15		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-7

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE: 03/07/05
DRILL RIG: Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p ⊢ W ⊣ W_l	NOTES WATER LEVELS
0		0.0 - 0.3 CONCRETE			0.3	1				1.0 / 1.0		
		0.3 - 9.0 Loose to dense, dark reddish brown, silty fine to coarse SAND with some gravel. (FILL)	SM			2				1.0 / 1.0		
5												
		9.0 - 15.0 Compact, dark brownish gray to grayish black, silty fine to coarse SAND with a thin clay seam, wet. (ALLUVIUM)	SM		9.0	3				1.0 / 1.0		
10												
15		Boring completed at 15.0 ft			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-8

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE: 03/07/05
DRILL RIG: Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer, 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10, 20, 30, 40) / WATER CONTENT (PERCENT) W_p — W — W_l	NOTES WATER LEVELS
0		0.0 - 0.3 CONCRETE			0.3	1				1.0/1.0		
		0.3 - 4.0 Loose to dense, dark reddish brown, silty fine to coarse SAND with little gravel and small cobbles, damp. (FILL)	SM									
5		4.0 - 9.0 Compact, dark grayish brown, silty fine SAND to sandy SILT, moist (ALLUVIUM)	SM-ML		4.0	2				1.0/1.0		
10		9.0 - 15.0 Compact, dark grayish black, silty fine to coarse SAND, moist to wet. (ALLUVIUM)	SM		9.0	3				1.0/1.0		▼ ?
15		Boring completed at 15.0 ft			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-9

SHEET 1 of 1

PROJECT. Boeing/Plant 2
PROJECT NUMBER. 013-1646-002.200
LOCATION:

DRILLING METHOD.
DRILLING DATE. 03/08/05
DRILL RIG Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION.
INCLINATION -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft (10 20 30 40) / WATER CONTENT (PERCENT) W_p — W — W_l	NOTES WATER LEVELS
0		0.0 - 0.3 ASPHALT			0.3	1				1.0 / 1.0		
		0.3 - 4.0 Loose to dense, dark reddish brown, silty fine to coarse SAND, damp.	SM									
5		4.0 - 9.0 Compact, dark grayish black, fine sandy SILT with some clay, moist. (ALLUVIUM/MARSH DEPOSITS)	ML		4.0	2				1.0 / 1.0		
10		9.0 - 15.0 Compact, dark grayish black, silty fine to coarse SAND, wet. (ALLUVIUM)	SM		9.0	3				1.0 / 1.0		
15		Boring completed at 15.0 ft			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-10

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER 013-1646-002 200
LOCATION:

DRILLING METHOD:
DRILLING DATE 03/08/05
DRILL RIG Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV / DEPTH (ft)	SAMPLES NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0		0.0 - 0.3 ASPHALT			0.3	1				1.0 / 1.0		
		0.3 - 4.0 Loose to dense, dark reddish brown, silty fine to coarse SAND with some gravel, damp (FILL)	SM									
		4.0 - 9.0 Loose to dense, reddish brown to gray, silty fine to coarse SAND with some gravel, damp. (FILL?)	SM		4.0	2				1.0 / 1.0		
		9.0 - 13.0 Loose to compact, dark grayish brown, silty fine SAND, wet. (ALLUVIUM)	SM		9.0	3				1.0 / 1.0		▼
		13.0 - 15.0 Loose to compact, grayish black, silty fine to coarse SAND, wet. (ALLUVIUM)	SM		13.0							
15		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-11

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE: 03/08/05
DRILL RIG: Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p — W — W_l	NOTES WATER LEVELS
0		0.0 - 0.3 ASPHALT			0.3	1				1.0 / 1.0		
		0.3 - 4.0 Loose, light gray, fine to coarse SAND with little silt, dry to damp. (FILL)	SP-SM									
5		4.0 - 9.0 Loose to dense, reddish brown to reddish gray, silty fine to coarse SAND with little fine to coarse gravel and cobbles, damp. (FILL)	SM		4.0	2				1.0 / 1.0		
10		9.0 - 14.0 Medium stiff to stiff, dark grayish black, CLAYEY SILT, trace fine to coarse sand, trace organics, moist. (MARSH DEPOSITS)	CL-ML		9.0	3				1.0 / 1.0		▼ ?
15		14.0 - 15.0 Compact, dark grayish black, fine sandy SILT, wet. (ALLUVIUM/MARSH DEPOSITS)	ML		14.0							
		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft

DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

RECORD OF BOREHOLE DP-SY-12

SHEET 1 of 1

PROJECT: Boeing/Plant 2
PROJECT NUMBER: 013-1646-002.200
LOCATION:

DRILLING METHOD:
DRILLING DATE: 03/08/05
DRILL RIG: Direct Push

DATUM:
AZIMUTH: N/A
COORDINATES not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) w_p ⊢ w ⊣ w_l	NOTES WATER LEVELS
0		0.0 - 0.3 ASPHALT			0.3	1				1.0 / 1.0		
		0.3 - 4.0 Loose, light gray, fine to coarse SAND with little silt, dry to damp. (FILL)	SP-SM									
		4.0 - 9.0 Dense, reddish brown to reddish gray, stratified, silty fine to carse SAND with little fine to coarse gravel, moist (FILL?)	SM		4.0	2				1.0 / 1.0		
5												
		9.0 - 15.0 Medium stiff to stiff, dark grayish black (some streaking gray/black), CLAYEY SILT, wet. (MARSH DEPOSITS)	CL-ML		9.0	3				1.0 / 1.0		▼
10												
15		Boring completed at 15.0 ft.			15.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR:
DRILLER:

LOGGED: CSK
CHECKED: JdLC
DATE: 7/19/2005

Golder Associates

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-601A

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: MARCH 1, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-601A

SUBSURFACE PROFILE				SAMPLE						
Depth	Log	USCS Code	Description	Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data	Comments
0			Ground Surface							
1		SW	***Asphalt*** ***Fill*** Damp, medium-dense, dark grayish-black, well-graded, sand with gravel			3-12-13	(0'-1.5')	0		Concrete Surface Seal
2										Hydrated Bentonite Chips
3										
4		SM	Damp, loose, dark grayish-brown, well-graded, silty sand			5-5-4	(3.5'-5')	0		20X40 CSSI Sand Filter Pack
5			***Native/Alluvium***							
6										
7										2-inch Diameter Flush Threaded Schedule 40 PVC Well Casing with 10-Slot Schedule 40 PVC Well Screen
8										
9		SM	Wet, loose, dark gray, fine, silty sand			3-3-2	(8.5'-10')	0		
10			Wet, loose, brownish-gray, well-graded, sand with silt							Water Level ATD
11										
12										
13										Stainless Steel Centralizers located at 4.5' and 20' BGS
14		SM	Wet, loose, dark grayish-brown, well-graded, silty sand							
15			Wet, medium-dense, dark grayish-brown, well-graded, silty sand							
16										
17										
18										
19										
20										Flush Threaded PVC End Cap
21			End of Borehole							
22										
23										
24										
25										

Project No.: 17505.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-601B

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: MARCH 2, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-601B

SUBSURFACE PROFILE				SAMPLE				
Depth	Log	USCS Code	Description	Interval Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data / Comments
0			Ground Surface					
0		SM/GM	***Asphalt***					Concrete Surface Seal
1			***Fill*** Loose to dense, dark grayish-brown, fine to coarse, silty sand and gravel, with some shell fragments and cobbles		Hand Auger	0-1.5'	0	
2								
3								2-inch Diameter Flush Threaded Schedule 40 PVC Well Casing
4		ML	Moist, very loose, dark grayish-black, clayey silt		3-2-1	3.5'-5'	0	
5			***Native/Alluvium***					
6			Fine to coarse, silty sand					
7								
8								
9		SM	Wet, loose, dark gray, fine, silty sand		3-2-3	8.5'-10'	0	Bentonite Grout
10								Water Level ATD
11			Wet, loose, brownish-gray, fine to coarse, sand with silt					
12								
13								
14		SM	Wet, loose, dark grayish-brown, fine to coarse, silty sand		3-2-2	13.5'-15'	0	
15			Wet, compact, dark grayish-brown, fine to coarse, silty sand					
16								
17								
18								
19					5-8-8	18.5'-20'	0	Stainless Steel Centralizers Above and Below Screened Interval and at 20' BGS
20								
21								
22								
23								
24		SM	Wet, compact, dark grayish-brown, fine to coarse, sand with some silt		6-8-8	23.5'-25'	0.2	
25								
26								

Project No.: 17505 0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-601B

Client: BOEING COMPANY
Logged By: CHRIS KING
Date of Drilling: MARCH 2, 2005
Location: PLANT 2 SOUTH YARD

Drilling Contractor: CASCADE DRILLING INC.
Method: HOLLOW-STEM-AUGER
Drill Rig: CME-75
Borehole: SY-PL2-601B

SUBSURFACE PROFILE				SAMPLE					
Depth	Log	USCS Code	Description	Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data / Comments
27–28			***Alluvium*** Wet, dense, dark grayish-brown, fine to coarse, sand with some silt						Bentonite Grout
29–30						6-12-20	28.5'-30'	0 2	
31–33									
34–35		ML	Wet, compact, dark gray, fine sandy silt with trace organics (wood flecks)			5-7-7	33.5-35'	0.4	
36–38									
39–40		SM	Wet, compact, dark grayish-brown, fine to coarse, silty sand with trace organics			7-6-7	38.5'-40'	0.2	
41–42									
43									Hydrated Bentonite Chips
44–45						5-6-7	43.5'-45'	0	20X40 CSSI Sand Filter Pack
46–47									10-Slot, Schedule 40 PVC Well Screen
48									Stainless Steel Centralizers at 44' and 49.5' BGS
49–50		ML	Wet, compact, dark gray, fine, sandy silt with trace organics			7-4-7	48.5'-50'	0	Flush Threaded PVC End Cap
51–52			End of Borehole						

Project No.: 17505.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-602A

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: MARCH 1, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-602A

SUBSURFACE PROFILE				SAMPLE						
Depth	Log	USCS Code	Description	Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data	Comments
0			Ground Surface							
			Asphalt							Concrete Surface Seal
1		SW	***Fill*** Damp, compact, dark brownish-gray, well-graded, sand with trace silt and gravel			3-12-12	0-1.5'	0		
2										Hydrated Bentonite Chips
3										
4		SM	Moist, loose, dark grayish-brown, fine, silty sand			5-5-5	3.5'-5'	0		
5										20X40 CSSI Sand Filter Pack
6			***Native/Alluvium***							
7										2-inch Diameter Flush Threaded Schedule 40 PVC Well Casing with 10-Slot, Schedule 40 PVE Well Screen
8										
9		ML	Moist, loose, black, fine, sandy silt			3-5-5	8.5'-10'			
10										Water Level ATD
11										
12										
13										Stainless Steel Centralizers at 5.5' and 21' BGS
14										
15										
16										
17										
18										
19										
20			Dense, dark gray, well-graded, sand with some silt							
21										Flush Threaded PVC End Cap
22			End of Borehole							
23										
24										
25										

Project No.: 17505.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-602B

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: MARCH 1, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-602B

SUBSURFACE PROFILE				SAMPLE						
Depth	Log	USCS Code	Description	Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data	Comments
0			Ground Surface							
			Asphalt							Concrete Surface Seal
1		SW	***Fill*** Damp, loose, dark brownish-gray, well-graded, sand with trace silt and gravel					0		Bentonite Grout
2										
3										
4		SM	Moist, loose, dark brownish-gray, fine, silty sand			3-3-2	3.5'-5'	0		2-inch Diameter Flush Threaded Schedule 40 PVC Well Casing
5			***Native/Alluvium***							
6										
7										
8										
9		ML	Wet, loose, very dark gray, fine, sandy silt			3-4-5	8.5'-10'	0		Water Level ATD
10										
11										
12										Stainless Steel Centralizers Above and Below Screened Interval and at 20' BGS
13										
14		SM	Same as above			4-4-5	13.5'-15'	0		
15										
16										
17										
18										
19		SW/SM	Wet, medium-dense, dark gray, well-graded, sand with some silt			5-15-7	18.5'-20	0		
20										
21										
22										
23										
24		SW	Wet, dense, dark gray, well-graded, sand with trace silt			15-18-20	23.5'-25'	0		
25										

Project No.: 17505.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-602B

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: MARCH 1, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-602B

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data	Comments
26–28										Bentonite Grout
29–30		SW/SM	Wet, dense, dark gray, well-graded, sand with some silt and trace gravel			15-20-25	28.5'-30'	0		
31–33										
34–35		SW/SM	Wet, medium-dense, dark-gray, well-graded, sand with silt			7-13-15	33.5'-35'			
36–38										
39–40		SM/ML	Wet, loose, grayish-brown, fine, silty sand to sandy silt			3-3-6	38.5'-40'			
41–43										Hydrated Bentonite Chips
44–45		SW/SM	Wet, medium-dense, grayish-brown, well-graded, sand with silt and trace organics			5-9-15	43.5'-45'	0		20/X40 CSSI Sand Filter Pack
46–48										10-Slot, Schedule 40 PVC Well Screen; Stainless Steel Centralizers at 44' and 49.5' BGS
49–50		SM	Same as above			8-19-10	48.5'-50'	0		Flush Threaded PVC End Cap
51			End of Borehole							

Project No.: 17505.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-603A

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: FEBRUARY 28, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-603A

Depth	USCS Code	Description	Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Comments
		Ground Surface						
0		***Asphalt***						Concrete Surface Seal
1	SW	***Fill*** Damp, very dense, medium to very dark grayish-brown, well-graded, sand with some silt and gravel			10-29-30	0-1.5'	0	
2–3								Hydrated Bentonite Chips
4	SM	Damp, dense, medium to very dark grayish-brown, well-graded, silty sand with some gravel			18-22-26	3.5'-5'	0	
5–8		***Native/Alluvium***						20X40 CSSI Sand Filter Pack; 2-inch Diameter Flush Threaded Schedule 40 PVC Well Casing with 10-Slot, Schedule 40 PVE Well Screen
9	ML	Wet, dense, very dark gray, fine to medium, silty sand			11-17-18	8.5'-10'	0	
10–11								Water Level ATD
12		Strong hydrocarbon odor noted at 11.5' depth					14	
13–19								Stainless Steel Centralizers at 5.5' and 21' BGS
20		Wet, dense, very dark gray, well-graded, sand with trace silt						
21–22								Flush Threaded PVC End Cap
		End of Borehole						
23–25								

Project No.: 17505.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-603B

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: FEBRUARY 28, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-603B

SUBSURFACE PROFILE			SAMPLE						
Depth	Log	USCS Code	Description	Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data	Comments
0			Ground Surface							
			Asphalt							Concrete Surface Seal
1		SW	***Fill*** Damp, loose, medium to very dark grayish-brown, well-graded, sand with some gravel and silt					0		
2										Bentonite Grout
3										
4		SM	Damp, dense, medium to very dark gray, well-graded, silty sand with some gravel			17-18-18	3.5'-5'	0		2-inch Diameter Flush Threaded Schedule 40 PVC Well Casing
5			***Native/Alluvium***							
6										
7										
8										
9		SM	Wet, loose, very dark gray, fine to medium, silty sand			3-2-2	8.5'-10'	0		Water Level ATD
10										
11										
12										
13										
14			Wood Debris			50 5"	13.5'-15'			
15										
16										
17										
18										
19		SW/SM	Wet, loose, very dark gray, well-graded, sand with trace silt			2-3-5	18.5'-20	0		Stainless Steel Centralizers Above and Below Screened Interval and at 20' BGS
20										
21										
22										
23										
24		SW	Wet, dense, very dark gray, well-graded, sand with trace silt			8-12-12	23.5'-25'	0		
25										
26										

Project No.: 17505.0

ENVIRONMENTAL PARTNERS INC

Boring/Well Designation: PL2-603B

Client: BOEING COMPANY	***Drilling Contractor:*** CASCADE DRILLING INC.
Logged By: CHRIS KING	***Method:*** HOLLOW-STEM-AUGER
Date of Drilling: FEBRUARY 28, 2005	***Drill Rig:*** CME-75
Location: PLANT 2 SOUTH YARD	***Borehole:*** SY-PL2-603B

Depth	SUBSURFACE PROFILE: Log	USCS Code	Description	SAMPLE: Interval	Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction Data	Comments
27–28										Bentonite Grout
29–30		SW/SM	Wet, dense, dark gray, well-graded, silty sand with trace gravel and trace clay			8-12-13	28.5'-30'	0		
31–33										
34–35		SM	Wet, dense, dark-gray, fine to medium, silty sand			4-8-12	33.5'-35'	0		
36–38										
39–40		SM	Same as above			8-12-14	38.5'-40'			
41–43										Hydrated Bentonite Chips
44–45		SM	Same as above			6-8-8	43.5'-45'	0		20X40 CSSI Sand Filter Pack
46–48										10-Slot, Schedule 40 PVC Well Screen; Stainless Steel Centralizers at 44' and 49.5' BGS
49–50		SM	Same as above			9-12-14	48.5'-50'	0		Flush Threaded PVC End Cap
51–52			End of Borehole							

Project No.: 17505.0

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

Attachment B
Well Development Field Parameter Stabilization Data

ENVIRONMENTAL PARTNERS INC

Monitoring Well Developing Field Measurements Record

Job Name/Location: ASouth Yard Data Gaps - Boeing Plant 2
Job Number: 17504.2
Date: 3-Mar-05
Page Number: 1

Analytical Parameters:
Well #: 601A

Well ID	Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations
601A	9.35	21	1:05	0.5 gallon	-	-	-	-	Initial pumping; very silty
			1:10	-	-	-	-	-	Surging; 5-gallon mark
			1:15	10 gallon	-	-	-	-	Initial pumping; cloudy
			1:20	-	-	-	-	-	Surging; 10-gallon mark
			1:35	20 gallon	-	-	-	-	Pumping; 20-gallon mark. Cloudy/Silty
			1:45	-	-	-	-	-	Surging; 25-gallon mark
			1:55	35 gallon	-	-	-	-	Pumping; 35-gallon mark. Cloudy/Silty
			2:05	40 gallon	6.47	79	260	17	Pumping; 40-gallon mark. Moderately cloudy
			2:15	50 gallon	6.57	74	130	17	Pumping; 50-gallon mark. Slightly cloudy
			2:20	57 gallon	6.57	65	47	17	Pumping; 57-gallon mark. Slightly yellowish, clear
			2:25	62 gallon	6.61	61	21	17	Pumping; 62-gallon mark. Slightly yellowish, clear
			2:30	67 gallon	6.65	60	18.6	17	Pumping; 67-gallon mark. Slightly yellowish, clear
			2:34	72 gallon	6.69	56	11.7	17	Pumping 72-gallon mark. Slightly yellowish, clear
			2:38	77 gallon	6.61	58	13.9	17	Pumping; 77-gallon mark. Slightly yellowish, clear
			2:41	82 gallon	6.61	58	10.2	17	Pumping; 82-gallon mark. Slightly yellowish, clear
			2:45	87 gallon	6.61	57	9.4	17	Pumping 87-gallon mark. Slightly yellowish, clear
			2:48	92 gallon	6.61	57	9.5	17	Pumping; 92-gallon mark. Slightly yellowish, clear

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

Attachment C
Survey Locations of Wells and Direct-Push Probes

Volume IIIb Corrective Measures Study
South Yard Area Data Gap Investigation Report
Boeing Plant 2

Survey Locations for Wells and Direct-Push Probes

New Monitoring Well Locations				
Monitor Well Number	**Northing**	**Easting**	**Rim Elevation of Casing**	**Measuring Point Elevation**
PL2-601A	195,822	1,276,832	13.15	12.75
PL2-601B	195,822	1,276,841	13.08	12.67
PL2-602A	195,821	1,276,702	13.24	12.90
PL2-602B	195,821	1,276,707	13.22	12.74
PL2-603A	195,821	1,276,595	13.10	12.70
PL2-603B	195,821	1,276,599	13.09	12.55
Direct Push Locations				
Direct Push Number	**Northing**	**Easting**	**Ground Elevation**	**Point Number**
DP-SY-1	196,040	1,276,789	13.47	1019
DP-SY-2	195,916	1,276,848	13.22	1018
DP-SY-3	195,871	1,276,982	13.14	1017
DP-SY-4	195,851	1,276,991	12.79	1016
DP-SY-5	195,821	1,277,004	12.48	1015
DP-SY-6	196,090	1,276,563	13.28	1006
DP-SY-7	196,112	1,276,462	13.15	1004
DP-SY-8	196,127	1,276,550	13.32	1005
DP-SY-9	196,075	1,276,511	12.45	1007
DP-SY-10	195,884	1,276,140	13.14	1003
DP-SY-11	195,842	1,276,128	13.42	1002
DP-SY-12	195,828	1,276,139	13.32	1001

Horizontal Datum = NAD83(91)
Vertical Datum = 1929 (NGVD29)

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

Attachment D
Historic Groundwater Analytical Data

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Table of Contents

List of Historic Groundwater Data Tables

Arsenic (Dissolved) Concentrations in Groundwater
Copper (Dissolved) Concentrations in Groundwater
Lead (Dissolved) Concentrations in Groundwater
Manganese (Dissolved) Concentrations in Groundwater
Mercury (Dissolved) Concentrations in Groundwater
Nickel (Dissolved) Concentrations in Groundwater
Selenium (Dissolved) Concentrations in Groundwater
Zinc (Dissolved) Concentrations in Groundwater
2,4-Dimethylphenol Concentrations in Groundwater
bis(2-Ethylhexyl)phthalate Concentrations in Groundwater
Aroclor 1254 Concentrations in Groundwater
Benzene Concentrations in Groundwater
1,1-Dichloroethene Concentrations in Groundwater
cis-1,2-Dichloroethene Concentrations in Groundwater
Tetrachloroethene Concentrations in Groundwater
1,1,2-Trichloroethane Concentrations in Groundwater
Trichloroethene Concentrations in Groundwater
Vinyl Chloride Concentrations in Groundwater
TPH-Diesel Range Concentrations in Groundwater
TPH-Gasoline Range Concentrations in Groundwater
TPH-Motor Oil Range Concentrations in Groundwater

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South Yard Area Historic COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
GP-06637	14	3/15/1995	2	
GP-06637	25	3/15/1995	1	U
GP-06637	45	3/15/1995	1	U
GP-06638	14	3/16/1995	7	
GP-06638	25	3/16/1995	1	
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	7	
GP-06639	14	3/16/1995	7	
GP-06639	25	3/16/1995	1	U
GP-06639	45	3/16/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-06640	25	3/15/1995	2	
GP-06640	45	3/15/1995	1	U
GP-08007	15	2/17/1995	27	
GP-08008	17	7/26/1995	1	
GP-08008	25	7/26/1995	4	
GP-08701	15	2/17/1995	16	
GP-08901	14	9/14/1994	24	
GP-08902	14	9/14/1994	50	
GP-08903	14	9/14/1994	9	
GP-08904	14	9/14/1994	1	U
GP-08905	14	9/13/1994	2	U
GP-08906	15	11/29/1994	16	
GP-08906	25	11/29/1994	4	
GP-08906	25	11/29/1994	4	
GP-08906	45	11/29/1994	1	
GP-08906	65	11/29/1994	1	U
GP-08907	63	11/29/1994	1	U
GP-08907	15	11/28/1994	7	
GP-08907	25	11/28/1994	4	
GP-08907	45	11/28/1994	1	U
GP-08908	14	3/17/1995	1	
GP-08908	25	3/17/1995	6	
GP-08908	45	3/17/1995	1	U
GP-09101	15	9/12/1994	23	
GP-09101	15	9/12/1994	27	
GP-09102	14	9/8/1994	34	
GP-09103	14	9/8/1994	7	
GP-09104	15	11/23/1994	7	
GP-09104	25	11/23/1994	1	U
GP-09104	45	11/23/1994	1	
GP-09105	15	11/23/1994	92	
GP-09105	25	11/23/1994	1	U
GP-09105	45	11/23/1994	1	U
GP-09106	14	3/14/1995	31	

South Yard Area Historic COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
GP-09106	25	3/14/1995	1	U
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	76	
GP-09107	25	3/14/1995	1	U
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	72	
GP-09108	25	3/14/1995	2	
GP-09108	45	3/14/1995	1	U
GP-09109	14	3/15/1995	11	
GP-09109	25	3/15/1995	8	
GP-09109	45	3/15/1995	1	U
GP-09110	15	9/19/1995	14	
GP-09110	25	9/19/1995	1	
GP-09110	45	9/19/1995	1	
GP-09111	15	9/20/1995	9	
GP-09111	25	9/20/1995	2	
GP-09111	45	9/20/1995	1	U
GP-09112	15	9/19/1995	32	
GP-09112	25	9/19/1995	1	
GP-09112	45	9/19/1995	1	
GP-09113	15	9/19/1995	2	
GP-09113	25	9/19/1995	46	
GP-09113	45	9/19/1995	1	
GP-09114	15	9/20/1995	2	
GP-09114	25	9/20/1995	4	
GP-09114	45	9/20/1995	1	
GP-09114	45	9/20/1995	1	
GP-09115	15	9/19/1995	5	U
GP-09115	25	9/19/1995	7	
GP-09115	45	9/19/1995	1	U
PL2-101A	13 - 21	3/24/1995	24	
PL2-101A	13 - 21	7/15/1992	37	
PL2-101A	13 - 21	7/15/1992	38	
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101B	45 - 55	7/15/1992	1	U
PL2-101C	71 - 81	7/15/1992	2	U
PL2-102A	8.5 - 18.5	3/24/1995	2	
PL2-102A	8.5 - 18.5	7/17/1992	1	
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	5	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	5	U
PL2-104C	76 - 96	7/16/1992	5	U
PL2-105A	7.5 - 27.5	7/16/1992	11	
PL2-105B	39 - 49	7/16/1992	5	U

South Yard Area Historic COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
PL2-105C	77 - 87	7/16/1992	5	U
PL2-106A	8 - 28	1/22/2001	59.4	
PL2-106A	8 - 28	8/4/2000	54.3	
PL2-106A	8 - 28	3/24/1995	5	
PL2-106A	8 - 28	7/15/1992	39	
PL2-106AR	8 - 16	8/20/2002	58.4	
PL2-106B	39 - 49	3/28/1995	1	
PL2-106B	39 - 49	7/15/1992	5	U
PL2-106C	82.5 - 92.5	7/15/1992	5	U
PL2-107A	10 - 20	7/17/1992	1	U
PL2-108A	10 - 20	7/17/1992	1	U
PL2-109A	8 - 18	7/16/1992	3	
PL2-109B	38 - 48	7/16/1992	5	U
PL2-109C	78 - 88	7/16/1992	5	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110B	47 - 57	7/15/1992	5	U
PL2-110C	82 - 92	7/15/1992	1	U
PL2-112A	8.5 - 18.5	8/15/2002	21.5	
PL2-112A	8.5 - 18.5	3/31/1995	41	
PL2-112A	8.5 - 18.5	1/18/1989	10.9	
PL2-112B	40 - 50	8/15/2002	0.7	
PL2-113A	8 - 18	8/20/2002	8.3	
PL2-113A	8 - 18	1/18/1989	12.8	
PL2-114A	8.5 - 18.5	1/18/1989	7.2	
PL2-115A	7.5 - 17.7	8/20/2002	0.4	
PL2-116A	7.5 - 17.8	8/20/2002	18.9	
PL2-117A	7.9 - 17.9	8/16/2002	4.8	
PL2-117A	7.9 - 17.9	1/18/1989	6.8	
PL2-118A	8 - 18	9/23/1994	54	
PL2-119A	8 - 18	9/26/1994	39	
PL2-120A	8 - 18	9/26/1994	10	
PL2-151A	6 - 16	1/23/2001	3.7	
PL2-151A	6 - 16	8/3/2000	11.6	
PL2-151B	45 - 50	1/23/2001	3.2	
PL2-151B	45 - 50	8/2/2000	5	
PL2-151C	75 - 80	1/23/2001	5	
PL2-151C	75 - 80	8/3/2000	13	
PL2-152A	6 - 16	1/24/2001	1.1	UB
PL2-152A	6 - 16	8/3/2000	2.5	
PL2-152B	45 - 50	1/24/2001	3.3	
PL2-152B	45 - 50	8/3/2000	2.3	
PL2-152C	80 - 85	1/24/2001	6	
PL2-152C	80 - 85	8/3/2000	8	
PL2-153A	6 - 16	1/25/2001	3.7	
PL2-153B	45 - 50	1/24/2001	4	

South Yard Area Historic COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
PL2-153C	80 - 85	1/24/2001	8	
PL2-154A	6 - 16	1/25/2001	13.7	
PL2-154B	45 - 50	1/25/2001	2	
PL2-154C	80 - 85	1/25/2001	6	
PL2-155A	6 - 16	1/22/2001	93.7	
PL2-155A	6 - 16	8/4/2000	83.6	
PL2-155B	45 - 50	1/23/2001	2.6	
PL2-155B	45 - 50	8/4/2000	2.4	
PL2-155C	80 - 85	1/22/2001	9	
PL2-155C	80 - 85	8/4/2000	20	
PL2-156A	6 - 16	1/23/2001	99.3	
PL2-156A	6 - 16	1/23/2001	96.7	
PL2-156A	6 - 16	8/4/2000	93.7	
PL2-301A	8 - 23	7/7/1992	3	
PL2-301A	8 - 23	7/7/1992	2	
PL2-302A	7 - 22	9/27/1994	6	
PL2-302A	7 - 22	7/7/1992	8	
PL2-303A	8 - 13	7/7/1992	2	
PL2-304A		7/7/1992	2	
PL2-305A		7/7/1992	4	
PL2-320A	8 - 18	3/24/1995	2	
PL2-320A	8 - 18	3/24/1995	2	
PL2-320A	8 - 18	9/23/1994	3	
PL2-BF01A	8 - 18	8/27/2002	0.2	U
PL2-BF01A	8 - 18	3/27/1995	1	
PL2-BF01A	8 - 18	9/22/1994	18	
PL2-JF01A	7 - 17	3/10/1995	1	
PL2-JF01AR	23.2 - 27	5/1/2006	0.4	
PL2-JF01AR	23.2 - 27	2/6/2006	1.8	
PL2-JF01AR	23.2 - 27	10/31/2005	0.5	U
PL2-JF01AR	23.2 - 27	8/1/2005	0.5	
PL2-JF01AR	23.2 - 27	5/2/2005	0.5	U
PL2-JF01AR	23.2 - 27	5/2/2005	0.5	U
PL2-JF01AR	23.2 - 27	2/1/2005	0.5	U
PL2-JF01AR	23.2 - 27	11/1/2004	0.8	
PL2-JF01AR	23.2 - 27	11/1/2004	0.7	
PL2-JF01AR	23.2 - 27	8/2/2004	0.4	
PL2-JF01AR	23.2 - 27	5/10/2004	0.4	
PL2-JF01AR	23.2 - 27	2/2/2004	0.5	U
PL2-JF01AR	23.2 - 27	12/8/2003	0.3	
PL2-JF01AR	23.2 - 27	9/2/2003	0.4	
PL2-JF01AR	23.2 - 27	6/16/2003	0.4	
PL2-JF01AR	23.2 - 27	1/21/2002	0.7	
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	10/24/2001	0.5	U
PL2-JF01AR	23.2 - 27	7/25/2001	0.5	U

South Yard Area Historic COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
PL2-JF01AR	23.2 - 27	5/17/2001	0.5	U
PL2-JF01B	40 - 50	5/1/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	1	
PL2-JF01B	40 - 50	10/31/2005	2	U
PL2-JF01B	40 - 50	8/1/2005	0.6	
PL2-JF01B	40 - 50	5/2/2005	2	
PL2-JF01B	40 - 50	2/1/2005	1	U
PL2-JF01B	40 - 50	11/1/2004	2.4	
PL2-JF01B	40 - 50	8/2/2004	1.3	
PL2-JF01B	40 - 50	5/10/2004	1	U
PL2-JF01B	40 - 50	2/2/2004	0.5	U
PL2-JF01B	40 - 50	12/8/2003	1	U
PL2-JF01B	40 - 50	9/2/2003	3.5	
PL2-JF01B	40 - 50	6/16/2003	0.5	U
PL2-JF01B	40 - 50	1/21/2002	1	
PL2-JF01B	40 - 50	10/24/2001	2	U
PL2-JF01B	40 - 50	7/25/2001	1	U
PL2-JF01B	40 - 50	4/26/2001	1	
PL2-JF01B	40 - 50	3/31/1995	1	
PL2-JF01C	74 - 78.5	5/1/2006	1.89	
PL2-JF01C	74 - 78.5	2/6/2006	0.291	
PL2-JF01C	74 - 78.5	10/31/2005	0.297	
PL2-JF01C	74 - 78.5	8/1/2005	0.3	
PL2-JF01C	74 - 78.5	5/2/2005	0.317	J
PL2-JF01C	74 - 78.5	2/1/2005	3	
PL2-JF01C	74 - 78.5	12/8/2003	0.363	
PL2-JF01C	74 - 78.5	12/8/2003	2	U
PL2-JF01C	74 - 78.5	6/16/2003	3	
PL2-JF01C	74 - 78.5	1/21/2002	6	
PL2-JF01C	74 - 78.5	10/24/2001	6	
PL2-JF01C	74 - 78.5	7/25/2001	2	U
PL2-JF01C	74 - 78.5	5/17/2001	4	
PL2-JF02A	5.5 - 23	5/1/2006	0.3	
PL2-JF02A	5.5 - 23	2/6/2006	0.5	U
PL2-JF02A	5.5 - 23	10/31/2005	0.2	
PL2-JF02A	5.5 - 23	8/1/2005	0.4	
PL2-JF02A	5.5 - 23	5/2/2005	0.3	
PL2-JF02A	5.5 - 23	2/1/2005	0.3	
PL2-JF02A	5.5 - 23	11/1/2004	0.4	
PL2-JF02A	5.5 - 23	8/2/2004	1	
PL2-JF02A	5.5 - 23	5/10/2004	0.6	
PL2-JF02A	5.5 - 23	2/2/2004	0.8	
PL2-JF02A	5.5 - 23	12/8/2003	0.8	
PL2-JF02A	5.5 - 23	9/2/2003	0.8	
PL2-JF02A	5.5 - 23	6/16/2003	0.5	
PL2-JF02A	5.5 - 23	1/21/2002	3.9	

South Yard Area Historic COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
PL2-JF02A	5.5 - 23	10/24/2001	0.5	U
PL2-JF02A	5.5 - 23	7/25/2001	0.7	
PL2-JF02A	5.5 - 23	4/26/2001	0.4	
PL2-JF03A	6 - 23	10/31/2005	0.5	
PL2-JF03A	6 - 23	5/2/2005	0.4	
PL2-JF03A	6 - 23	11/1/2004	0.5	
PL2-JF03A	6 - 23	12/8/2003	0.4	
PL2-JF03A	6 - 23	6/16/2003	1	
PL2-JF03A	6 - 23	1/21/2002	0.8	
PL2-JF03A	6 - 23	10/24/2001	0.6	
PL2-JF03A	6 - 23	7/25/2001	0.6	
PL2-JF03A	6 - 23	4/26/2001	0.4	

South Yard Area Historic COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
GP-06637	14	3/15/1995	4	
GP-06637	25	3/15/1995	2	U
GP-06637	45	3/15/1995	2	U
GP-06638	14	3/16/1995	2	
GP-06638	25	3/16/1995	2	U
GP-06638	45	3/16/1995	2	U
GP-06639	14	3/16/1995	6	
GP-06639	25	3/16/1995	2	U
GP-06639	45	3/16/1995	2	U
GP-06639	14	3/16/1995	4	
GP-06640	14	3/15/1995	2	U
GP-06640	25	3/15/1995	2	U
GP-06640	45	3/15/1995	2	U
GP-06640	14	3/15/1995	2	
GP-08007	15	2/17/1995	2	U
GP-08008	17	7/26/1995	2	U
GP-08008	25	7/26/1995	2	UB
GP-08701	15	2/17/1995	2	U
GP-08901	14	9/14/1994	2	
GP-08902	14	9/14/1994	2	U
GP-08903	14	9/14/1994	2	U
GP-08904	14	9/14/1994	2	
GP-08905	14	9/13/1994	2	U
GP-08906	15	11/29/1994	2	UB
GP-08906	25	11/29/1994	2	U
GP-08906	45	11/29/1994	2	U
GP-08906	65	11/29/1994	2	U
GP-08906	25	11/29/1994	2	U
GP-08907	63	11/29/1994	2	U
GP-08907	15	11/28/1994	3	
GP-08907	25	11/28/1994	2	U
GP-08907	45	11/28/1994	2	U
GP-08908	14	3/17/1995	2	U
GP-08908	25	3/17/1995	6	
GP-08908	45	3/17/1995	2	U
GP-09101	15	9/12/1994	2	U
GP-09101	15	9/12/1994	2	U
GP-09102	14	9/8/1994	2	U
GP-09103	14	9/8/1994	2	U
GP-09104	15	11/23/1994	2	U
GP-09104	25	11/23/1994	2	U
GP-09104	45	11/23/1994	2	U
GP-09105	15	11/23/1994	2	U
GP-09105	25	11/23/1994	2	U
GP-09105	45	11/23/1994	2	U
GP-09106	14	3/14/1995	43	

South Yard Area Historic COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
GP-09106	25	3/14/1995	2	U
GP-09106	45	3/14/1995	2	U
GP-09107	14	3/14/1995	2	U
GP-09107	25	3/14/1995	2	U
GP-09107	45	3/14/1995	2	U
GP-09108	14	3/14/1995	3	
GP-09108	25	3/14/1995	2	U
GP-09108	45	3/14/1995	2	U
GP-09109	14	3/15/1995	7	
GP-09109	25	3/15/1995	2	U
GP-09109	45	3/15/1995	2	U
GP-09110	15	9/19/1995	7	
GP-09110	25	9/19/1995	2	U
GP-09110	45	9/19/1995	2	U
GP-09111	15	9/20/1995	14	UB
GP-09111	25	9/20/1995	2	U
GP-09111	45	9/20/1995	2	U
GP-09112	15	9/19/1995	2	U
GP-09112	25	9/19/1995	2	U
GP-09112	45	9/19/1995	2	
GP-09113	15	9/19/1995	2	U
GP-09113	25	9/19/1995	2	U
GP-09113	45	9/19/1995	2	U
GP-09114	15	9/20/1995	3	UB
GP-09114	25	9/20/1995	2	U
GP-09114	45	9/20/1995	2	UB
GP-09114	45	9/20/1995	4	UB
GP-09115	15	9/19/1995	2	U
GP-09115	25	9/19/1995	2	U
GP-09115	45	9/19/1995	2	U
PL2-101A	13 - 21	3/24/1995	2	U
PL2-101A	13 - 21	7/15/1992	2	U
PL2-101A	13 - 21	7/15/1992	2	U
PL2-101A	13 - 21	5/4/1988	2	U
PL2-101B	45 - 55	3/24/1995	2	U
PL2-101B	45 - 55	7/15/1992	2	U
PL2-101C	71 - 81	7/15/1992	2	U
PL2-102A	8.5 - 18.5	3/24/1995	18	
PL2-102A	8.5 - 18.5	7/17/1992	15	
PL2-102A	8.5 - 18.5	5/4/1988	39	
PL2-102B	47 - 57	7/17/1992	2	U
PL2-102C	77 - 87	7/17/1992	2	U
PL2-103A	4 - 20	5/4/1988	2	U
PL2-104A	7 - 27	7/16/1992	2	U
PL2-104A	7 - 27	5/4/1988	2	U
PL2-104B	40 - 50	7/16/1992	2	U

South Yard Area Historic COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
PL2-104C	76 - 96	7/16/1992	2	U
PL2-104C	76 - 96	7/16/1992	2	U
PL2-104C	76 - 96	5/4/1988	28	
PL2-105A	7.5 - 27.5	7/16/1992	2	
PL2-105A	7.5 - 27.5	5/4/1988	2	U
PL2-105B	39 - 49	7/16/1992	2	U
PL2-105C	77 - 87	7/16/1992	2	U
PL2-106A	8 - 28	1/22/2001	0.5	
PL2-106A	8 - 28	8/4/2000	1.4	
PL2-106A	8 - 28	3/24/1995	2	U
PL2-106A	8 - 28	7/15/1992	2	U
PL2-106A	8 - 28	5/4/1988	2	U
PL2-106AR	8 - 16	8/20/2002	0.8	
PL2-106B	39 - 49	3/28/1995	2	U
PL2-106B	39 - 49	7/15/1992	2	U
PL2-106C	82.5 - 92.5	7/15/1992	2	U
PL2-107A	10 - 20	7/17/1992	3	
PL2-108A	10 - 20	7/17/1992	2	U
PL2-109A	8 - 18	7/16/1992	2	
PL2-109B	38 - 48	7/16/1992	2	U
PL2-109C	78 - 88	7/16/1992	2	U
PL2-110A	9 - 19	7/15/1992	2	U
PL2-110A	9 - 19	7/15/1992	2	U
PL2-110B	47 - 57	7/15/1992	2	U
PL2-110C	82 - 92	7/15/1992	2	U
PL2-112A	8.5 - 18.5	8/15/2002	0.6	
PL2-112A	8.5 - 18.5	3/31/1995	2	U
PL2-112A	8.5 - 18.5	1/18/1989	1	U
PL2-112B	40 - 50	8/15/2002	0.7	
PL2-113A	8 - 18	8/20/2002	0.7	
PL2-113A	8 - 18	1/18/1989	3.5	
PL2-114A	8.5 - 18.5	1/18/1989	1	U
PL2-115A	7.5 - 17.7	8/20/2002	1	
PL2-116A	7.5 - 17.8	8/20/2002	0.7	
PL2-117A	7.9 - 17.9	8/16/2002	0.7	
PL2-117A	7.9 - 17.9	1/18/1989	1.5	
PL2-118A	8 - 18	9/23/1994	2	U
PL2-119A	8 - 18	9/26/1994	2	U
PL2-120A	8 - 18	9/26/1994	2	U
PL2-151A	6 - 16	1/23/2001	0.5	
PL2-151A	6 - 16	8/3/2000	0.8	
PL2-151B	45 - 50	1/23/2001	0.5	U
PL2-151B	45 - 50	8/2/2000	0.5	U
PL2-151C	75 - 80	1/23/2001	2	U
PL2-151C	75 - 80	8/3/2000	5	U
PL2-152A	6 - 16	1/24/2001	1.6	

South Yard Area Historic COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
PL2-152A	6 - 16	8/3/2000	5.7	
PL2-152B	45 - 50	1/24/2001	0.5	U
PL2-152B	45 - 50	8/3/2000	0.5	U
PL2-152C	80 - 85	1/24/2001	2	U
PL2-152C	80 - 85	8/3/2000	5	U
PL2-153A	6 - 16	1/25/2001	0.9	
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	2	U
PL2-154A	6 - 16	1/25/2001	0.6	
PL2-154B	45 - 50	1/25/2001	0.5	U
PL2-154C	80 - 85	1/25/2001	2	U
PL2-155A	6 - 16	1/22/2001	0.6	
PL2-155A	6 - 16	8/4/2000	0.5	U
PL2-155B	45 - 50	1/23/2001	0.5	U
PL2-155B	45 - 50	8/4/2000	0.5	U
PL2-155C	80 - 85	1/22/2001	2	U
PL2-155C	80 - 85	8/4/2000	5	U
PL2-156A	6 - 16	1/23/2001	0.5	U
PL2-156A	6 - 16	1/23/2001	0.5	U
PL2-156A	6 - 16	8/4/2000	0.6	
PL2-301A	8 - 23	7/7/1992	2	U
PL2-301A	8 - 23	7/7/1992	5	
PL2-302A	7 - 22	9/27/1994	4	
PL2-302A	7 - 22	7/7/1992	8	
PL2-303A	8 - 13	7/7/1992	8	
PL2-304A		7/7/1992	2	U
PL2-305A		7/7/1992	6	
PL2-320A	8 - 18	3/24/1995	2	
PL2-320A	8 - 18	3/24/1995	3	
PL2-320A	8 - 18	9/23/1994	2	
PL2-BF01A	8 - 18	8/27/2002	9.7	
PL2-BF01A	8 - 18	3/27/1995	2	
PL2-BF01A	8 - 18	9/22/1994	2	U
PL2-JF01A	7 - 17	3/10/1995	2	U
PL2-JF01AR	23.2 - 27	5/1/2006	0.7	
PL2-JF01AR	23.2 - 27	2/6/2006	1	
PL2-JF01AR	23.2 - 27	10/31/2005	0.5	U
PL2-JF01AR	23.2 - 27	8/1/2005	0.5	U
PL2-JF01AR	23.2 - 27	5/2/2005	0.5	U
PL2-JF01AR	23.2 - 27	5/2/2005	0.5	U
PL2-JF01AR	23.2 - 27	2/1/2005	0.5	U
PL2-JF01AR	23.2 - 27	11/1/2004	0.5	U
PL2-JF01AR	23.2 - 27	11/1/2004	0.5	U
PL2-JF01AR	23.2 - 27	8/2/2004	0.5	U
PL2-JF01AR	23.2 - 27	5/10/2004	0.5	U
PL2-JF01AR	23.2 - 27	2/2/2004	0.5	

South Yard Area Historic COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
PL2-JF01AR	23.2 - 27	12/8/2003	0.5	U
PL2-JF01AR	23.2 - 27	9/2/2003	0.9	
PL2-JF01AR	23.2 - 27	6/16/2003	0.5	
PL2-JF01AR	23.2 - 27	1/21/2002	0.5	
PL2-JF01AR	23.2 - 27	10/24/2001	0.5	
PL2-JF01AR	23.2 - 27	10/24/2001	0.5	U
PL2-JF01AR	23.2 - 27	7/25/2001	0.5	U
PL2-JF01AR	23.2 - 27	5/17/2001	0.5	U
PL2-JF01B	40 - 50	5/1/2006	3	
PL2-JF01B	40 - 50	2/6/2006	4	
PL2-JF01B	40 - 50	10/31/2005	2	U
PL2-JF01B	40 - 50	8/1/2005	1.3	U
PL2-JF01B	40 - 50	5/2/2005	2	
PL2-JF01B	40 - 50	2/1/2005	2	
PL2-JF01B	40 - 50	11/1/2004	2	
PL2-JF01B	40 - 50	8/2/2004	1.4	U
PL2-JF01B	40 - 50	5/10/2004	1	U
PL2-JF01B	40 - 50	2/2/2004	1.7	
PL2-JF01B	40 - 50	12/8/2003	1	U
PL2-JF01B	40 - 50	9/2/2003	1.5	
PL2-JF01B	40 - 50	6/16/2003	0.8	
PL2-JF01B	40 - 50	1/21/2002	1	
PL2-JF01B	40 - 50	10/24/2001	1.2	
PL2-JF01B	40 - 50	7/25/2001	1	
PL2-JF01B	40 - 50	4/26/2001	1.1	
PL2-JF01B	40 - 50	3/31/1995	2	U
PL2-JF01C	74 - 78.5	5/1/2006	3	
PL2-JF01C	74 - 78.5	2/6/2006	1.3	U
PL2-JF01C	74 - 78.5	10/31/2005	2	U
PL2-JF01C	74 - 78.5	8/1/2005	2	U
PL2-JF01C	74 - 78.5	5/2/2005	2	U
PL2-JF01C	74 - 78.5	2/1/2005	2	U
PL2-JF01C	74 - 78.5	11/1/2004	4	
PL2-JF01C	74 - 78.5	12/8/2003	2	U
PL2-JF01C	74 - 78.5	6/16/2003	2	U
PL2-JF01C	74 - 78.5	1/21/2002	5	U
PL2-JF01C	74 - 78.5	10/24/2001	3	
PL2-JF01C	74 - 78.5	7/25/2001	2	U
PL2-JF01C	74 - 78.5	5/17/2001	2	U
PL2-JF02A	5.5 - 23	5/1/2006	0.6	
PL2-JF02A	5.5 - 23	2/6/2006	0.5	U
PL2-JF02A	5.5 - 23	10/31/2005	0.6	
PL2-JF02A	5.5 - 23	8/1/2005	0.5	U
PL2-JF02A	5.5 - 23	5/2/2005	0.5	U
PL2-JF02A	5.5 - 23	2/1/2005	0.5	U
PL2-JF02A	5.5 - 23	11/1/2004	0.5	U

South Yard Area Historic COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
PL2-JF02A	5.5 - 23	8/2/2004	0.7	
PL2-JF02A	5.5 - 23	5/10/2004	0.5	U
PL2-JF02A	5.5 - 23	2/2/2004	0.7	
PL2-JF02A	5.5 - 23	12/8/2003	0.6	
PL2-JF02A	5.5 - 23	9/2/2003	0.8	
PL2-JF02A	5.5 - 23	6/16/2003	1	
PL2-JF02A	5.5 - 23	1/21/2002	1.5	
PL2-JF02A	5.5 - 23	10/24/2001	0.5	U
PL2-JF02A	5.5 - 23	7/25/2001	0.5	U
PL2-JF02A	5.5 - 23	4/26/2001	0.6	
PL2-JF03A	6 - 23	10/31/2005	0.7	
PL2-JF03A	6 - 23	5/2/2005	0.5	U
PL2-JF03A	6 - 23	11/1/2004	0.6	U
PL2-JF03A	6 - 23	12/8/2003	0.5	U
PL2-JF03A	6 - 23	6/16/2003	0.5	U
PL2-JF03A	6 - 23	1/21/2002	0.6	
PL2-JF03A	6 - 23	10/24/2001	0.5	U
PL2-JF03A	6 - 23	7/25/2001	0.5	U
PL2-JF03A	6 - 23	4/26/2001	2.9	

South Yard Area Historic COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
GP-06637	14	3/15/1995	1	UJ
GP-06637	25	3/15/1995	1	UJ
GP-06637	45	3/15/1995	1	UJ
GP-06638	14	3/16/1995	1	
GP-06638	25	3/16/1995	1	
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06639	25	3/16/1995	1	
GP-06639	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06640	14	3/15/1995	1	J
GP-06640	25	3/15/1995	1	UJ
GP-06640	45	3/15/1995	1	J
GP-06640	14	3/15/1995	1	UJ
GP-08007	15	2/17/1995	2	
GP-08008	17	7/26/1995	1	U
GP-08008	25	7/26/1995	1	U
GP-08701	15	2/17/1995	1	
GP-08901	14	9/14/1994	1	U
GP-08902	14	9/14/1994	2	
GP-08903	14	9/14/1994	2	
GP-08904	14	9/14/1994	3	
GP-08905	14	9/13/1994	2	
GP-08906	15	11/29/1994	3	UB
GP-08906	25	11/29/1994	1	UB
GP-08906	45	11/29/1994	1	UB
GP-08906	65	11/29/1994	1	U
GP-08906	25	11/29/1994	1	UB
GP-08907	63	11/29/1994	3	UB
GP-08907	15	11/28/1994	3	UB
GP-08907	25	11/28/1994	2	UB
GP-08907	45	11/28/1994	3	UB
GP-08908	14	3/17/1995	1	U
GP-08908	25	3/17/1995	1	
GP-08908	45	3/17/1995	1	
GP-09101	15	9/12/1994	3	UB
GP-09101	15	9/12/1994	1	UB
GP-09102	14	9/8/1994	2	
GP-09103	14	9/8/1994	4	
GP-09104	15	11/23/1994	2	
GP-09104	25	11/23/1994	2	
GP-09104	45	11/23/1994	1	U
GP-09105	15	11/23/1994	2	
GP-09105	25	11/23/1994	2	
GP-09105	45	11/23/1994	1	
GP-09106	14	3/14/1995	7	

South Yard Area Historic COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
GP-09106	25	3/14/1995	1	U
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	1	U
GP-09107	25	3/14/1995	1	U
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	1	
GP-09108	25	3/14/1995	1	U
GP-09108	45	3/14/1995	1	U
GP-09109	14	3/15/1995	1	J
GP-09109	25	3/15/1995	1	UJ
GP-09109	45	3/15/1995	1	UJ
GP-09110	15	9/19/1995	4	UB
GP-09110	25	9/19/1995	1	UB
GP-09110	45	9/19/1995	2	UB
GP-09111	15	9/20/1995	2	UB
GP-09111	25	9/20/1995	1	U
GP-09111	45	9/20/1995	1	UB
GP-09112	15	9/19/1995	1	U
GP-09112	25	9/19/1995	1	U
GP-09112	45	9/19/1995	1	UB
GP-09113	15	9/19/1995	2	UB
GP-09113	25	9/19/1995	1	U
GP-09113	45	9/19/1995	1	U
GP-09114	15	9/20/1995	2	UB
GP-09114	25	9/20/1995	8	
GP-09114	45	9/20/1995	3	UB
GP-09114	45	9/20/1995	2	UB
GP-09115	15	9/19/1995	6	
GP-09115	25	9/19/1995	1	UB
GP-09115	45	9/19/1995	2	UB
PL2-101A	13 - 21	3/24/1995	1	
PL2-101A	13 - 21	7/15/1992	30	U
PL2-101A	13 - 21	7/15/1992	30	U
PL2-101A	13 - 21	5/4/1988	10	U
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101B	45 - 55	7/15/1992	30	U
PL2-101C	71 - 81	7/15/1992	30	U
PL2-102A	8.5 - 18.5	3/24/1995	2	
PL2-102A	8.5 - 18.5	7/17/1992	2	
PL2-102A	8.5 - 18.5	5/4/1988	10	U
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	10	U
PL2-104A	7 - 27	7/16/1992	1	
PL2-104A	7 - 27	5/4/1988	10	U
PL2-104B	40 - 50	7/16/1992	1	U

South Yard Area Historic COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
PL2-104C	76 - 96	7/16/1992	2	
PL2-104C	76 - 96	7/16/1992	1	
PL2-104C	76 - 96	5/4/1988	10	
PL2-105A	7.5 - 27.5	7/16/1992	1	U
PL2-105A	7.5 - 27.5	5/4/1988	10	U
PL2-105B	39 - 49	7/16/1992	1	U
PL2-105C	77 - 87	7/16/1992	1	U
PL2-106A	8 - 28	1/22/2001	1	U
PL2-106A	8 - 28	8/4/2000	1	U
PL2-106A	8 - 28	3/24/1995	1	U
PL2-106A	8 - 28	7/15/1992	30	U
PL2-106A	8 - 28	5/4/1988	10	U
PL2-106AR	8 - 16	8/20/2002	1	U
PL2-106B	39 - 49	3/28/1995	1	U
PL2-106B	39 - 49	7/15/1992	30	U
PL2-106C	82.5 - 92.5	7/15/1992	30	U
PL2-107A	10 - 20	7/17/1992	1	U
PL2-108A	10 - 20	7/17/1992	2	
PL2-109A	8 - 18	7/16/1992	1	U
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	2	
PL2-110A	9 - 19	7/15/1992	30	U
PL2-110A	9 - 19	7/15/1992	30	U
PL2-110B	47 - 57	7/15/1992	30	U
PL2-110C	82 - 92	7/15/1992	30	U
PL2-112A	8.5 - 18.5	8/15/2002	1	U
PL2-112A	8.5 - 18.5	3/31/1995	1	U
PL2-112A	8.5 - 18.5	1/18/1989	1	U
PL2-112B	40 - 50	8/15/2002	1	U
PL2-113A	8 - 18	8/20/2002	1	U
PL2-113A	8 - 18	1/18/1989	1	U
PL2-114A	8.5 - 18.5	1/18/1989	1	
PL2-115A	7.5 - 17.7	8/20/2002	1	U
PL2-116A	7.5 - 17.8	8/20/2002	1	U
PL2-117A	7.9 - 17.9	8/16/2002	1	U
PL2-117A	7.9 - 17.9	1/18/1989	1	U
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	1/23/2001	1	U
PL2-151A	6 - 16	8/3/2000	1	U
PL2-151B	45 - 50	1/23/2001	1	U
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	5	U
PL2-151C	75 - 80	8/3/2000	10	U
PL2-152A	6 - 16	1/24/2001	1	U

South Yard Area Historic COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
PL2-152A	6 - 16	8/3/2000	1	U
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	5	U
PL2-152C	80 - 85	8/3/2000	10	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	2	U
PL2-153C	80 - 85	1/24/2001	5	U
PL2-154A	6 - 16	1/25/2001	1	U
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	5	U
PL2-155A	6 - 16	1/22/2001	1	U
PL2-155A	6 - 16	8/4/2000	1	U
PL2-155B	45 - 50	1/23/2001	1	U
PL2-155B	45 - 50	8/4/2000	1	U
PL2-155C	80 - 85	1/22/2001	5	U
PL2-155C	80 - 85	8/4/2000	10	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	8/4/2000	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-302A	7 - 22	9/27/1994	1	U
PL2-302A	7 - 22	7/7/1992	5	
PL2-303A	8 - 13	7/7/1992	1	U
PL2-304A		7/7/1992	1	U
PL2-305A		7/7/1992	2	
PL2-320A	8 - 18	3/24/1995	1	U
PL2-320A	8 - 18	3/24/1995	1	U
PL2-320A	8 - 18	9/23/1994	1	
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-BF01A	8 - 18	3/27/1995	1	UB
PL2-BF01A	8 - 18	9/22/1994	1	U
PL2-JF01A	7 - 17	3/10/1995	1	UB
PL2-JF01AR	23.2 - 27	5/1/2006	1	U
PL2-JF01AR	23.2 - 27	2/6/2006	2	U
PL2-JF01AR	23.2 - 27	10/31/2005	1	U
PL2-JF01AR	23.2 - 27	8/1/2005	1	U
PL2-JF01AR	23.2 - 27	5/2/2005	1	U
PL2-JF01AR	23.2 - 27	5/2/2005	1	U
PL2-JF01AR	23.2 - 27	2/1/2005	1	U
PL2-JF01AR	23.2 - 27	11/1/2004	1	U
PL2-JF01AR	23.2 - 27	11/1/2004	1	U
PL2-JF01AR	23.2 - 27	8/2/2004	1	U
PL2-JF01AR	23.2 - 27	5/10/2004	1	U
PL2-JF01AR	23.2 - 27	2/2/2004	1	U

South Yard Area Historic COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
PL2-JF01AR	23.2 - 27	12/8/2003	1	U
PL2-JF01AR	23.2 - 27	9/2/2003	1	U
PL2-JF01AR	23.2 - 27	6/16/2003	1	U
PL2-JF01AR	23.2 - 27	1/21/2002	1	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	7/25/2001	1	U
PL2-JF01AR	23.2 - 27	5/17/2001	1	U
PL2-JF01B	40 - 50	5/1/2006	2	U
PL2-JF01B	40 - 50	2/6/2006	5	U
PL2-JF01B	40 - 50	10/31/2005	5	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	5/2/2005	2	U
PL2-JF01B	40 - 50	2/1/2005	2	U
PL2-JF01B	40 - 50	11/1/2004	2	U
PL2-JF01B	40 - 50	8/2/2004	1	U
PL2-JF01B	40 - 50	5/10/2004	2	U
PL2-JF01B	40 - 50	2/2/2004	1	U
PL2-JF01B	40 - 50	12/8/2003	2	U
PL2-JF01B	40 - 50	9/2/2003	1	U
PL2-JF01B	40 - 50	6/16/2003	1	U
PL2-JF01B	40 - 50	1/21/2002	2	U
PL2-JF01B	40 - 50	10/24/2001	1	U
PL2-JF01B	40 - 50	7/25/2001	2	U
PL2-JF01B	40 - 50	4/26/2001	1	U
PL2-JF01B	40 - 50	3/31/1995	1	U
PL2-JF01C	74 - 78.5	5/1/2006	2	U
PL2-JF01C	74 - 78.5	2/6/2006	1	U
PL2-JF01C	74 - 78.5	10/31/2005	5	U
PL2-JF01C	74 - 78.5	8/1/2005	5	U
PL2-JF01C	74 - 78.5	5/2/2005	5	U
PL2-JF01C	74 - 78.5	2/1/2005	5	U
PL2-JF01C	74 - 78.5	11/1/2004	5	U
PL2-JF01C	74 - 78.5	12/8/2003	5	U
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	5	U
PL2-JF01C	74 - 78.5	1/21/2002	10	U
PL2-JF01C	74 - 78.5	10/24/2001	5	U
PL2-JF01C	74 - 78.5	7/25/2001	5	U
PL2-JF01C	74 - 78.5	5/17/2001	5	U
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	U

South Yard Area Historic COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	U
PL2-JF02A	5.5 - 23	5/10/2004	1	U
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	1	U
PL2-JF02A	5.5 - 23	10/24/2001	1	U
PL2-JF02A	5.5 - 23	7/25/2001	1	U
PL2-JF02A	5.5 - 23	4/26/2001	1	U
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	U

South Yard Area Historic COC Results
Manganese (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Manganese - 2004 Groundwater Screening Level = 100 µg/L				
GP-06637	14	3/15/1995	153	
GP-06637	25	3/15/1995	489	
GP-06637	45	3/15/1995	850	
GP-06638	14	3/16/1995	601	
GP-06638	25	3/16/1995	234	
GP-06638	45	3/16/1995	838	
GP-06639	14	3/16/1995	1390	
GP-06639	25	3/16/1995	394	
GP-06639	45	3/16/1995	689	
GP-06639	14	3/16/1995	1340	
GP-06640	14	3/15/1995	45	
GP-06640	25	3/15/1995	1170	
GP-06640	45	3/15/1995	678	
GP-06640	14	3/15/1995	49	
GP-08007	15	2/17/1995	913	
GP-08008	17	7/26/1995	372	
GP-08008	25	7/26/1995	141	
GP-08701	15	2/17/1995	1230	
GP-08901	14	9/14/1994	1840	
GP-08902	14	9/14/1994	6770	
GP-08903	14	9/14/1994	426	
GP-08904	14	9/14/1994	14	
GP-08905	14	9/13/1994	17	
GP-08908	14	3/17/1995	276	
GP-08908	25	3/17/1995	35	
GP-08908	45	3/17/1995	555	
GP-09101	15	9/12/1994	2260	
GP-09101	15	9/12/1994	2260	
GP-09102	14	9/8/1994	2930	
GP-09103	14	9/8/1994	989	
GP-09104	15	11/23/1994	1200	
GP-09104	25	11/23/1994	754	
GP-09104	45	11/23/1994	549	
GP-09105	15	11/23/1994	2350	
GP-09105	25	11/23/1994	666	
GP-09105	45	11/23/1994	728	
GP-09106	14	3/14/1995	922	
GP-09106	25	3/14/1995	678	
GP-09106	45	3/14/1995	1480	
GP-09107	14	3/14/1995	1970	
GP-09107	25	3/14/1995	463	
GP-09107	45	3/14/1995	390	
GP-09108	14	3/14/1995	1220	
GP-09108	25	3/14/1995	415	
GP-09108	45	3/14/1995	470	
GP-09109	14	3/15/1995	990	

South Yard Area Historic COC Results
Manganese (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Manganese - 2004 Groundwater Screening Level = 100 µg/L				
GP-09109	25	3/15/1995	479	
GP-09109	45	3/15/1995	508	
GP-09110	45	9/19/1995	1100	
GP-09112	45	9/19/1995	593	
GP-09114	45	9/20/1995	314	
PL2-101A	13 - 21	3/24/1995	2060	
PL2-101B	45 - 55	3/24/1995	895	
PL2-102A	8.5 - 18.5	3/24/1995	10	
PL2-104C	76 - 96	8/22/1995	211	
PL2-106A	8 - 28	1/22/2001	4130	
PL2-106A	8 - 28	3/24/1995	1770	
PL2-106B	39 - 49	3/28/1995	999	
PL2-110C	82 - 92	8/22/1995	227	
PL2-112A	8.5 - 18.5	3/31/1995	2680	
PL2-112B	40 - 50	8/25/1995	1290	
PL2-112B	40 - 50	8/25/1995	1280	
PL2-118A	8 - 18	9/23/1994	3420	
PL2-119A	8 - 18	9/26/1994	1690	
PL2-120A	8 - 18	9/26/1994	2420	
PL2-151A	6 - 16	1/23/2001	579	
PL2-151B	45 - 50	1/23/2001	775	
PL2-151C	75 - 80	1/23/2001	628	
PL2-152A	6 - 16	1/24/2001	296	
PL2-152B	45 - 50	1/24/2001	446	
PL2-152C	80 - 85	1/24/2001	261	
PL2-153A	6 - 16	1/25/2001	845	
PL2-153B	45 - 50	1/24/2001	1050	
PL2-153C	80 - 85	1/24/2001	601	
PL2-154A	6 - 16	1/25/2001	2360	
PL2-154B	45 - 50	1/25/2001	590	
PL2-154C	80 - 85	1/25/2001	434	
PL2-155A	6 - 16	1/22/2001	3210	
PL2-155B	45 - 50	1/23/2001	578	
PL2-155C	80 - 85	1/22/2001	630	
PL2-156A	6 - 16	1/23/2001	3830	
PL2-156A	6 - 16	1/23/2001	3850	
PL2-302A	7 - 22	9/27/1994	243	
PL2-320A	8 - 18	3/24/1995	102	
PL2-320A	8 - 18	3/24/1995	117	
PL2-320A	8 - 18	9/23/1994	199	
PL2-BF01A	8 - 18	3/27/1995	358	
PL2-BF01A	8 - 18	9/22/1994	1930	
PL2-JF01A	7 - 17	3/10/1995	1460	
PL2-JF01AR	23.2 - 27	5/1/2006	1370	
PL2-JF01AR	23.2 - 27	2/6/2006	2520	
PL2-JF01AR	23.2 - 27	10/31/2005	1060	

South Yard Area Historic COC Results
Manganese (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Manganese - 2004 Groundwater Screening Level = 100 µg/L				
PL2-JF01AR	23.2 - 27	8/1/2005	1110	
PL2-JF01B	40 - 50	5/1/2006	3230	
PL2-JF01B	40 - 50	2/6/2006	408	
PL2-JF01B	40 - 50	10/31/2005	3260	
PL2-JF01B	40 - 50	8/1/2005	2180	
PL2-JF01B	40 - 50	9/27/1995	531	
PL2-JF01B	40 - 50	3/31/1995	511	
PL2-JF01C	74 - 78.5	5/1/2006	394	
PL2-JF01C	74 - 78.5	2/6/2006	395	
PL2-JF01C	74 - 78.5	10/31/2005	421	
PL2-JF01C	74 - 78.5	8/1/2005	423	
PL2-JF02A	5.5 - 23	5/1/2006	445	
PL2-JF02A	5.5 - 23	2/6/2006	1390	
PL2-JF02A	5.5 - 23	10/31/2005	431	
PL2-JF02A	5.5 - 23	8/1/2005	370	
PL2-JF02A	5.5 - 23	9/27/1995	765	
PL2-JF03A	6 - 23	10/31/2005	445	
PL2-JF03A	6 - 23	9/28/1995	1890	

South Yard Area Historic COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
GP-06637	14	3/15/1995	0.1	U
GP-06637	25	3/15/1995	0.1	U
GP-06637	45	3/15/1995	0.1	U
GP-06638	14	3/16/1995	0.1	U
GP-06638	25	3/16/1995	0.1	U
GP-06638	45	3/16/1995	0.1	U
GP-06639	14	3/16/1995	0.1	U
GP-06639	25	3/16/1995	0.1	U
GP-06639	45	3/16/1995	0.1	U
GP-06639	14	3/16/1995	0.1	U
GP-06640	14	3/15/1995	0.1	U
GP-06640	25	3/15/1995	0.1	U
GP-06640	45	3/15/1995	0.1	U
GP-06640	14	3/15/1995	0.1	U
GP-08007	15	2/17/1995	0.1	UJ
GP-08008	17	7/26/1995	0.1	U
GP-08008	25	7/26/1995	0.1	U
GP-08701	15	2/17/1995	0.1	UJ
GP-08901	14	9/14/1994	0.1	U
GP-08902	14	9/14/1994	0.1	U
GP-08903	14	9/14/1994	0.1	U
GP-08904	14	9/14/1994	0.1	U
GP-08905	14	9/13/1994	0.1	U
GP-08906	15	11/29/1994	0.1	U
GP-08906	25	11/29/1994	0.1	U
GP-08906	45	11/29/1994	0.1	U
GP-08906	65	11/29/1994	0.1	U
GP-08906	25	11/29/1994	0.1	U
GP-08907	63	11/29/1994	0.1	U
GP-08907	15	11/28/1994	0.1	U
GP-08907	25	11/28/1994	0.1	U
GP-08907	45	11/28/1994	0.1	U
GP-08908	14	3/17/1995	0.1	U
GP-08908	25	3/17/1995	0.1	U
GP-08908	45	3/17/1995	0.1	U
GP-09101	15	9/12/1994	0.1	U
GP-09101	15	9/12/1994	0.1	U
GP-09102	14	9/8/1994	0.1	U
GP-09103	14	9/8/1994	0.1	U
GP-09104	15	11/23/1994	0.1	U
GP-09104	25	11/23/1994	0.1	U
GP-09104	45	11/23/1994	0.1	U
GP-09105	15	11/23/1994	0.1	U
GP-09105	25	11/23/1994	0.1	U
GP-09105	45	11/23/1994	0.1	U
GP-09106	14	3/14/1995	0.1	U

South Yard Area Historic COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
GP-09106	25	3/14/1995	0.1	U
GP-09106	45	3/14/1995	0.1	U
GP-09107	14	3/14/1995	0.1	U
GP-09107	25	3/14/1995	0.1	U
GP-09107	45	3/14/1995	0.1	U
GP-09108	14	3/14/1995	0.1	U
GP-09108	25	3/14/1995	0.1	U
GP-09108	45	3/14/1995	0.1	U
GP-09109	14	3/15/1995	0.1	U
GP-09109	25	3/15/1995	0.1	U
GP-09109	45	3/15/1995	0.1	U
GP-09110	15	9/19/1995	0.1	U
GP-09110	25	9/19/1995	0.1	U
GP-09110	45	9/19/1995	0.1	U
GP-09111	15	9/20/1995	0.1	U
GP-09111	25	9/20/1995	0.1	U
GP-09111	45	9/20/1995	0.1	U
GP-09112	15	9/19/1995	0.1	U
GP-09112	25	9/19/1995	0.1	U
GP-09112	45	9/19/1995	0.1	U
GP-09113	15	9/19/1995	0.1	U
GP-09113	25	9/19/1995	0.1	U
GP-09113	45	9/19/1995	0.1	U
GP-09114	15	9/20/1995	0.1	U
GP-09114	25	9/20/1995	0.1	U
GP-09114	45	9/20/1995	0.1	U
GP-09114	45	9/20/1995	0.1	U
GP-09115	15	9/19/1995	0.1	U
GP-09115	25	9/19/1995	0.1	U
GP-09115	45	9/19/1995	0.1	U
PL2-101A	13 - 21	3/24/1995	0.1	U
PL2-101A	13 - 21	7/15/1992	0.1	U
PL2-101A	13 - 21	7/15/1992	0.1	U
PL2-101B	45 - 55	3/24/1995	0.1	U
PL2-101B	45 - 55	7/15/1992	0.1	U
PL2-101C	71 - 81	7/15/1992	0.1	U
PL2-102A	8.5 - 18.5	3/24/1995	0.1	U
PL2-102A	8.5 - 18.5	7/17/1992	0.1	U
PL2-102B	47 - 57	7/17/1992	0.1	U
PL2-102C	77 - 87	7/17/1992	0.1	U
PL2-104A	7 - 27	7/16/1992	0.1	U
PL2-104B	40 - 50	7/16/1992	0.1	U
PL2-104C	76 - 96	7/16/1992	0.1	U
PL2-104C	76 - 96	7/16/1992	0.1	U
PL2-105A	7.5 - 27.5	7/16/1992	0.1	U
PL2-105B	39 - 49	7/16/1992	0.1	U

South Yard Area Historic COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
PL2-105C	77 - 87	7/16/1992	0.1	U
PL2-106A	8 - 28	1/22/2001	0.00495	H
PL2-106A	8 - 28	8/4/2000	0.00052	
PL2-106A	8 - 28	3/24/1995	0.1	U
PL2-106A	8 - 28	7/15/1992	0.1	U
PL2-106AR	8 - 16	8/20/2002	0.025	U
PL2-106B	39 - 49	3/28/1995	0.1	U
PL2-106B	39 - 49	7/15/1992	0.1	U
PL2-106C	82.5 - 92.5	7/15/1992	0.1	U
PL2-107A	10 - 20	7/17/1992	0.1	U
PL2-108A	10 - 20	7/17/1992	0.1	U
PL2-109A	8 - 18	7/16/1992	0.1	U
PL2-109B	38 - 48	7/16/1992	0.1	U
PL2-109C	78 - 88	7/16/1992	0.1	U
PL2-110A	9 - 19	7/15/1992	0.1	U
PL2-110A	9 - 19	7/15/1992	0.1	U
PL2-110B	47 - 57	7/15/1992	0.1	U
PL2-110C	82 - 92	7/15/1992	0.1	U
PL2-112A	8.5 - 18.5	8/15/2002	0.025	U
PL2-112A	8.5 - 18.5	3/31/1995	0.1	U
PL2-112A	8.5 - 18.5	1/18/1989	0.2	U
PL2-112B	40 - 50	8/15/2002	0.025	U
PL2-113A	8 - 18	8/20/2002	0.025	U
PL2-113A	8 - 18	1/18/1989	0.2	U
PL2-114A	8.5 - 18.5	1/18/1989	0.2	U
PL2-115A	7.5 - 17.7	8/20/2002	0.025	U
PL2-116A	7.5 - 17.8	8/20/2002	0.025	U
PL2-117A	7.9 - 17.9	8/16/2002	0.025	U
PL2-117A	7.9 - 17.9	1/18/1989	0.2	U
PL2-118A	8 - 18	9/23/1994	0.1	U
PL2-119A	8 - 18	9/26/1994	0.1	U
PL2-120A	8 - 18	9/26/1994	0.1	U
PL2-151A	6 - 16	1/23/2001	0.00177	H
PL2-151A	6 - 16	8/3/2000	0.0002	U
PL2-151B	45 - 50	1/23/2001	0.000231	JH
PL2-151B	45 - 50	8/2/2000	0.00114	
PL2-151C	75 - 80	1/23/2001	0.000787	H
PL2-151C	75 - 80	8/3/2000	0.000485	J
PL2-152A	6 - 16	1/24/2001	0.00114	H
PL2-152A	6 - 16	8/3/2000	0.0004	J
PL2-152B	45 - 50	1/24/2001	0.00023	JH
PL2-152B	45 - 50	8/3/2000	0.000653	
PL2-152C	80 - 85	1/24/2001	0.0002	UH
PL2-152C	80 - 85	8/3/2000	0.0002	U
PL2-153A	6 - 16	1/25/2001	0.00505	
PL2-153B	45 - 50	1/24/2001	0.0002	UH

South Yard Area Historic COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
PL2-153C	80 - 85	1/24/2001	0.000943	JH
PL2-154A	6 - 16	1/25/2001	0.00241	
PL2-154B	45 - 50	1/25/2001	0.000631	
PL2-154C	80 - 85	1/25/2001	0.0002	U
PL2-155A	6 - 16	1/22/2001	0.00157	H
PL2-155A	6 - 16	8/4/2000	0.000802	
PL2-155B	45 - 50	1/23/2001	0.0002	UH
PL2-155B	45 - 50	8/4/2000	0.000531	
PL2-155C	80 - 85	1/22/2001	0.0002	UH
PL2-155C	80 - 85	8/4/2000	0.0002	U
PL2-156A	6 - 16	1/23/2001	0.00218	H
PL2-156A	6 - 16	1/23/2001	0.00264	H
PL2-156A	6 - 16	8/4/2000	0.000211	J
PL2-301A	8 - 23	7/7/1992	0.1	U
PL2-301A	8 - 23	7/7/1992	0.1	U
PL2-302A	7 - 22	9/27/1994	0.1	U
PL2-302A	7 - 22	7/7/1992	0.1	U
PL2-303A	8 - 13	7/7/1992	0.1	U
PL2-304A		7/7/1992	0.1	U
PL2-305A		7/7/1992	0.1	U
PL2-320A	8 - 18	3/24/1995	0.1	U
PL2-320A	8 - 18	3/24/1995	0.1	U
PL2-320A	8 - 18	9/23/1994	0.1	U
PL2-BF01A	8 - 18	8/27/2002	0.025	U
PL2-BF01A	8 - 18	3/27/1995	0.1	U
PL2-BF01A	8 - 18	9/22/1994	0.1	U
PL2-JF01A	7 - 17	3/10/1995	0.1	U
PL2-JF01AR	23.2 - 27	5/1/2006	0.02	U
PL2-JF01AR	23.2 - 27	2/6/2006	0.025	U
PL2-JF01AR	23.2 - 27	10/31/2005	0.02	U
PL2-JF01AR	23.2 - 27	10/31/2005	0.025	U
PL2-JF01AR	23.2 - 27	8/1/2005	0.025	U
PL2-JF01AR	23.2 - 27	5/2/2005	0.025	UJ
PL2-JF01AR	23.2 - 27	5/2/2005	0.025	UJ
PL2-JF01AR	23.2 - 27	2/1/2005	0.025	U
PL2-JF01AR	23.2 - 27	11/1/2004	0.025	U
PL2-JF01AR	23.2 - 27	11/1/2004	0.025	U
PL2-JF01AR	23.2 - 27	8/2/2004	0.025	U
PL2-JF01AR	23.2 - 27	5/10/2004	0.025	U
PL2-JF01AR	23.2 - 27	2/2/2004	0.025	U
PL2-JF01AR	23.2 - 27	12/8/2003	0.025	U
PL2-JF01AR	23.2 - 27	9/2/2003	0.025	U
PL2-JF01AR	23.2 - 27	6/16/2003	0.025	U
PL2-JF01AR	23.2 - 27	1/21/2002	0.1	U
PL2-JF01AR	23.2 - 27	1/21/2002	0.000254	J
PL2-JF01AR	23.2 - 27	10/24/2001	0.1	U

South Yard Area Historic COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
PL2-JF01AR	23.2 - 27	10/24/2001	0.000296	J
PL2-JF01AR	23.2 - 27	10/24/2001	0.1	U
PL2-JF01AR	23.2 - 27	10/24/2001	0.000234	J
PL2-JF01AR	23.2 - 27	7/25/2001	0.000588	J
PL2-JF01AR	23.2 - 27	5/17/2001	0.000401	J
PL2-JF01B	40 - 50	5/1/2006	0.02	U
PL2-JF01B	40 - 50	2/6/2006	0.025	U
PL2-JF01B	40 - 50	10/31/2005	0.02	U
PL2-JF01B	40 - 50	10/31/2005	0.025	U
PL2-JF01B	40 - 50	8/1/2005	0.025	U
PL2-JF01B	40 - 50	5/2/2005	0.025	UJ
PL2-JF01B	40 - 50	2/1/2005	0.025	U
PL2-JF01B	40 - 50	11/1/2004	0.025	U
PL2-JF01B	40 - 50	8/2/2004	0.025	U
PL2-JF01B	40 - 50	5/10/2004	0.025	U
PL2-JF01B	40 - 50	2/2/2004	0.025	U
PL2-JF01B	40 - 50	12/8/2003	0.025	U
PL2-JF01B	40 - 50	9/2/2003	0.025	U
PL2-JF01B	40 - 50	6/16/2003	0.025	U
PL2-JF01B	40 - 50	1/21/2002	0.1	U
PL2-JF01B	40 - 50	1/21/2002	0.000234	J
PL2-JF01B	40 - 50	10/24/2001	0.1	U
PL2-JF01B	40 - 50	10/24/2001	0.0002	U
PL2-JF01B	40 - 50	7/25/2001	0.0002	UJ
PL2-JF01B	40 - 50	4/26/2001	0.0002	U
PL2-JF01B	40 - 50	4/26/2001	0.1	U
PL2-JF01B	40 - 50	3/31/1995	0.1	U
PL2-JF01C	74 - 78.5	5/1/2006	0.02	U
PL2-JF01C	74 - 78.5	2/6/2006	0.025	U
PL2-JF01C	74 - 78.5	10/31/2005	0.02	U
PL2-JF01C	74 - 78.5	10/31/2005	0.025	U
PL2-JF01C	74 - 78.5	8/1/2005	0.025	U
PL2-JF01C	74 - 78.5	5/2/2005	0.025	UJ
PL2-JF01C	74 - 78.5	2/1/2005	0.025	U
PL2-JF01C	74 - 78.5	11/1/2004	0.025	U
PL2-JF01C	74 - 78.5	12/8/2003	0.025	U
PL2-JF01C	74 - 78.5	6/16/2003	0.025	U
PL2-JF01C	74 - 78.5	1/21/2002	0.1	U
PL2-JF01C	74 - 78.5	1/21/2002	0.0002	U
PL2-JF01C	74 - 78.5	10/24/2001	0.1	UJ
PL2-JF01C	74 - 78.5	10/24/2001	0.00045	J
PL2-JF01C	74 - 78.5	7/25/2001	0.0002	UJ
PL2-JF01C	74 - 78.5	5/17/2001	0.0002	U
PL2-JF02A	5.5 - 23	5/1/2006	0.02	U
PL2-JF02A	5.5 - 23	2/6/2006	0.025	U
PL2-JF02A	5.5 - 23	10/31/2005	0.02	U

South Yard Area Historic COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
PL2-JF02A	5.5 - 23	10/31/2005	0.025	U
PL2-JF02A	5.5 - 23	8/1/2005	0.025	U
PL2-JF02A	5.5 - 23	5/2/2005	0.025	UJ
PL2-JF02A	5.5 - 23	2/1/2005	0.025	U
PL2-JF02A	5.5 - 23	11/1/2004	0.025	U
PL2-JF02A	5.5 - 23	8/2/2004	0.025	U
PL2-JF02A	5.5 - 23	5/10/2004	0.025	U
PL2-JF02A	5.5 - 23	2/2/2004	0.025	U
PL2-JF02A	5.5 - 23	12/8/2003	0.025	U
PL2-JF02A	5.5 - 23	9/2/2003	0.025	U
PL2-JF02A	5.5 - 23	6/16/2003	0.025	U
PL2-JF02A	5.5 - 23	1/21/2002	0.1	U
PL2-JF02A	5.5 - 23	1/21/2002	0.00084	
PL2-JF02A	5.5 - 23	10/24/2001	0.1	U
PL2-JF02A	5.5 - 23	10/24/2001	0.00064	
PL2-JF02A	5.5 - 23	7/25/2001	0.000964	J
PL2-JF02A	5.5 - 23	4/26/2001	0.00103	
PL2-JF02A	5.5 - 23	4/26/2001	0.1	U
PL2-JF03A	6 - 23	10/31/2005	0.02	U
PL2-JF03A	6 - 23	10/31/2005	0.025	U
PL2-JF03A	6 - 23	5/2/2005	0.025	UJ
PL2-JF03A	6 - 23	11/1/2004	0.025	U
PL2-JF03A	6 - 23	12/8/2003	0.025	U
PL2-JF03A	6 - 23	6/16/2003	0.025	U
PL2-JF03A	6 - 23	1/21/2002	0.1	U
PL2-JF03A	6 - 23	1/21/2002	0.0002	U
PL2-JF03A	6 - 23	10/24/2001	0.1	U
PL2-JF03A	6 - 23	10/24/2001	0.000283	J
PL2-JF03A	6 - 23	7/25/2001	0.0002	UJ
PL2-JF03A	6 - 23	4/26/2001	0.0002	U
PL2-JF03A	6 - 23	4/26/2001	0.1	U
PL2-JF03A	6 - 23	4/26/2001	0.0002	U

South Yard Area Historic COC Results
Nickel (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Nickel - 2004 Groundwater Screening Level = 8.2 µg/L				
GP-06637	14	3/15/1995	60	
GP-06637	25	3/15/1995	10	U
GP-06637	45	3/15/1995	10	
GP-06638	14	3/16/1995	10	
GP-06638	25	3/16/1995	10	U
GP-06638	45	3/16/1995	10	U
GP-06639	14	3/16/1995	10	U
GP-06639	25	3/16/1995	10	U
GP-06639	45	3/16/1995	10	U
GP-06639	14	3/16/1995	10	U
GP-06640	14	3/15/1995	20	
GP-06640	25	3/15/1995	10	U
GP-06640	45	3/15/1995	20	
GP-06640	14	3/15/1995	20	
GP-08007	15	2/17/1995	20	
GP-08008	17	7/26/1995	10	U
GP-08008	25	7/26/1995	10	U
GP-08701	15	2/17/1995	10	U
GP-08901	14	9/14/1994	10	U
GP-08902	14	9/14/1994	10	U
GP-08903	14	9/14/1994	10	U
GP-08904	14	9/14/1994	10	U
GP-08905	14	9/13/1994	10	U
GP-08906	15	11/29/1994	10	U
GP-08906	25	11/29/1994	10	U
GP-08906	45	11/29/1994	10	U
GP-08906	65	11/29/1994	10	U
GP-08906	25	11/29/1994	10	U
GP-08907	63	11/29/1994	10	U
GP-08907	15	11/28/1994	10	U
GP-08907	25	11/28/1994	10	U
GP-08907	45	11/28/1994	10	U
GP-08908	14	3/17/1995	10	U
GP-08908	25	3/17/1995	20	
GP-08908	45	3/17/1995	10	U
GP-09101	15	9/12/1994	10	U
GP-09101	15	9/12/1994	10	U
GP-09102	14	9/8/1994	10	U
GP-09103	14	9/8/1994	10	U
GP-09104	15	11/23/1994	10	U
GP-09104	25	11/23/1994	10	U
GP-09104	45	11/23/1994	10	U
GP-09105	15	11/23/1994	10	U
GP-09105	25	11/23/1994	10	U
GP-09105	45	11/23/1994	10	U
GP-09106	14	3/14/1995	20	

South Yard Area Historic COC Results
Nickel (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Nickel - 2004 Groundwater Screening Level = 8.2 µg/L				
GP-09106	25	3/14/1995	20	
GP-09106	45	3/14/1995	10	U
GP-09107	14	3/14/1995	10	U
GP-09107	25	3/14/1995	10	U
GP-09107	45	3/14/1995	10	U
GP-09108	14	3/14/1995	10	U
GP-09108	25	3/14/1995	10	U
GP-09108	45	3/14/1995	10	
GP-09109	14	3/15/1995	10	U
GP-09109	25	3/15/1995	10	U
GP-09109	45	3/15/1995	10	U
GP-09110	15	9/19/1995	10	U
GP-09110	25	9/19/1995	10	U
GP-09110	45	9/19/1995	10	U
GP-09111	15	9/20/1995	10	U
GP-09111	25	9/20/1995	10	U
GP-09111	45	9/20/1995	10	U
GP-09112	15	9/19/1995	10	U
GP-09112	25	9/19/1995	10	U
GP-09112	45	9/19/1995	10	U
GP-09113	15	9/19/1995	20	
GP-09113	25	9/19/1995	10	U
GP-09113	45	9/19/1995	10	U
GP-09114	15	9/20/1995	10	U
GP-09114	25	9/20/1995	10	U
GP-09114	45	9/20/1995	10	U
GP-09114	45	9/20/1995	10	U
GP-09115	15	9/19/1995	10	U
GP-09115	25	9/19/1995	10	U
GP-09115	45	9/19/1995	10	U
PL2-101A	13 - 21	3/24/1995	10	U
PL2-101A	13 - 21	5/4/1988	10	U
PL2-101B	45 - 55	3/24/1995	10	U
PL2-102A	8.5 - 18.5	3/24/1995	10	U
PL2-102A	8.5 - 18.5	5/4/1988	10	U
PL2-103A	4 - 20	5/4/1988	10	U
PL2-104A	7 - 27	5/4/1988	10	U
PL2-104C	76 - 96	5/4/1988	10	U
PL2-105A	7.5 - 27.5	5/4/1988	10	U
PL2-106A	8 - 28	1/22/2001	3.8	
PL2-106A	8 - 28	8/4/2000	3.4	
PL2-106A	8 - 28	3/24/1995	10	U
PL2-106A	8 - 28	5/4/1988	10	U
PL2-106AR	8 - 16	8/20/2002	4.3	
PL2-106B	39 - 49	3/28/1995	10	U
PL2-112A	8.5 - 18.5	8/15/2002	2.9	

South Yard Area Historic COC Results
Nickel (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Nickel - 2004 Groundwater Screening Level = 8.2 µg/L				
PL2-112A	8.5 - 18.5	3/31/1995	10	U
PL2-112A	8.5 - 18.5	1/18/1989	1	U
PL2-112B	40 - 50	8/15/2002	1.6	
PL2-113A	8 - 18	8/20/2002	10.1	
PL2-113A	8 - 18	1/18/1989	3.2	
PL2-114A	8.5 - 18.5	1/18/1989	3.8	
PL2-115A	7.5 - 17.7	8/20/2002	4.2	
PL2-116A	7.5 - 17.8	8/20/2002	1.5	
PL2-117A	7.9 - 17.9	8/16/2002	6.3	
PL2-117A	7.9 - 17.9	1/18/1989	3.3	
PL2-118A	8 - 18	9/23/1994	10	U
PL2-119A	8 - 18	9/26/1994	10	U
PL2-120A	8 - 18	9/26/1994	10	U
PL2-151A	6 - 16	1/23/2001	1.2	
PL2-151A	6 - 16	8/3/2000	1.3	
PL2-151B	45 - 50	1/23/2001	0.8	
PL2-151B	45 - 50	8/2/2000	1.3	
PL2-151C	75 - 80	1/23/2001	4	
PL2-151C	75 - 80	8/3/2000	5	U
PL2-152A	6 - 16	1/24/2001	2.7	
PL2-152A	6 - 16	8/3/2000	3.2	
PL2-152B	45 - 50	1/24/2001	0.8	
PL2-152B	45 - 50	8/3/2000	1	
PL2-152C	80 - 85	1/24/2001	3	
PL2-152C	80 - 85	8/3/2000	5	U
PL2-153A	6 - 16	1/25/2001	1	
PL2-153B	45 - 50	1/24/2001	4	
PL2-153C	80 - 85	1/24/2001	4	
PL2-154A	6 - 16	1/25/2001	0.7	
PL2-154B	45 - 50	1/25/2001	1.2	
PL2-154C	80 - 85	1/25/2001	6	
PL2-155A	6 - 16	1/22/2001	1.8	
PL2-155A	6 - 16	8/4/2000	2.5	
PL2-155B	45 - 50	1/23/2001	0.6	
PL2-155B	45 - 50	8/4/2000	1	
PL2-155C	80 - 85	1/22/2001	7	
PL2-155C	80 - 85	8/4/2000	7	
PL2-156A	6 - 16	1/23/2001	1.3	
PL2-156A	6 - 16	1/23/2001	1.4	
PL2-156A	6 - 16	8/4/2000	1.5	
PL2-301A	8 - 23	7/7/1992	10	U
PL2-301A	8 - 23	7/7/1992	10	U
PL2-302A	7 - 22	9/27/1994	10	U
PL2-302A	7 - 22	7/7/1992	10	U
PL2-303A	8 - 13	7/7/1992	10	U
PL2-304A		7/7/1992	10	U

South Yard Area Historic COC Results
Nickel (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Nickel - 2004 Groundwater Screening Level = 8.2 µg/L				
PL2-305A		7/7/1992	10	U
PL2-320A	8 - 18	3/24/1995	10	U
PL2-320A	8 - 18	3/24/1995	10	U
PL2-320A	8 - 18	9/23/1994	10	U
PL2-BF01A	8 - 18	8/27/2002	5.9	
PL2-BF01A	8 - 18	3/27/1995	10	U
PL2-BF01A	8 - 18	9/22/1994	10	U
PL2-JF01A	7 - 17	3/10/1995	10	U
PL2-JF01AR	23.2 - 27	5/1/2006	1.3	
PL2-JF01AR	23.2 - 27	2/6/2006	2	
PL2-JF01AR	23.2 - 27	10/31/2005	0.7	
PL2-JF01AR	23.2 - 27	8/1/2005	1.2	
PL2-JF01AR	23.2 - 27	5/2/2005	0.5	U
PL2-JF01AR	23.2 - 27	5/2/2005	0.5	U
PL2-JF01AR	23.2 - 27	2/1/2005	0.9	
PL2-JF01AR	23.2 - 27	11/1/2004	2.4	
PL2-JF01AR	23.2 - 27	11/1/2004	2.4	
PL2-JF01AR	23.2 - 27	8/2/2004	1	
PL2-JF01AR	23.2 - 27	5/10/2004	1	
PL2-JF01AR	23.2 - 27	2/2/2004	1.1	
PL2-JF01AR	23.2 - 27	12/8/2003	0.8	
PL2-JF01AR	23.2 - 27	9/2/2003	0.9	
PL2-JF01AR	23.2 - 27	6/16/2003	0.8	
PL2-JF01AR	23.2 - 27	1/21/2002	1.3	
PL2-JF01AR	23.2 - 27	10/24/2001	1.1	
PL2-JF01AR	23.2 - 27	10/24/2001	1	
PL2-JF01AR	23.2 - 27	7/25/2001	0.7	
PL2-JF01AR	23.2 - 27	5/17/2001	0.8	
PL2-JF01B	40 - 50	5/1/2006	4	
PL2-JF01B	40 - 50	2/6/2006	2	U
PL2-JF01B	40 - 50	10/31/2005	2	U
PL2-JF01B	40 - 50	8/1/2005	2.7	
PL2-JF01B	40 - 50	5/2/2005	3	
PL2-JF01B	40 - 50	2/1/2005	3	
PL2-JF01B	40 - 50	11/1/2004	5	
PL2-JF01B	40 - 50	8/2/2004	3.2	
PL2-JF01B	40 - 50	5/10/2004	4	
PL2-JF01B	40 - 50	2/2/2004	2.4	
PL2-JF01B	40 - 50	12/8/2003	2	
PL2-JF01B	40 - 50	9/2/2003	6.1	
PL2-JF01B	40 - 50	6/16/2003	1.6	
PL2-JF01B	40 - 50	1/21/2002	2	
PL2-JF01B	40 - 50	10/24/2001	2.2	
PL2-JF01B	40 - 50	7/25/2001	2	
PL2-JF01B	40 - 50	4/26/2001	2.6	
PL2-JF01B	40 - 50	3/31/1995	10	U

South Yard Area Historic COC Results
Nickel (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Nickel - 2004 Groundwater Screening Level = 8.2 µg/L				
PL2-JF01C	74 - 78.5	5/1/2006	6	
PL2-JF01C	74 - 78.5	2/6/2006	0.8	
PL2-JF01C	74 - 78.5	10/31/2005	5	
PL2-JF01C	74 - 78.5	8/1/2005	8	
PL2-JF01C	74 - 78.5	5/2/2005	7	
PL2-JF01C	74 - 78.5	2/1/2005	6	
PL2-JF01C	74 - 78.5	11/1/2004	10	
PL2-JF01C	74 - 78.5	12/8/2003	6	
PL2-JF01C	74 - 78.5	6/16/2003	5	
PL2-JF01C	74 - 78.5	1/21/2002	7	
PL2-JF01C	74 - 78.5	10/24/2001	6	
PL2-JF01C	74 - 78.5	7/25/2001	6	
PL2-JF01C	74 - 78.5	5/17/2001	5	
PL2-JF02A	5.5 - 23	5/1/2006	0.6	
PL2-JF02A	5.5 - 23	2/6/2006	1.1	
PL2-JF02A	5.5 - 23	10/31/2005	0.8	
PL2-JF02A	5.5 - 23	8/1/2005	1.2	
PL2-JF02A	5.5 - 23	5/2/2005	0.5	U
PL2-JF02A	5.5 - 23	2/1/2005	1	
PL2-JF02A	5.5 - 23	11/1/2004	0.9	
PL2-JF02A	5.5 - 23	8/2/2004	2	
PL2-JF02A	5.5 - 23	5/10/2004	1.2	
PL2-JF02A	5.5 - 23	2/2/2004	0.8	
PL2-JF02A	5.5 - 23	12/8/2003	0.7	
PL2-JF02A	5.5 - 23	9/2/2003	2.1	
PL2-JF02A	5.5 - 23	6/16/2003	1.2	
PL2-JF02A	5.5 - 23	1/21/2002	2.4	
PL2-JF02A	5.5 - 23	10/24/2001	1	
PL2-JF02A	5.5 - 23	7/25/2001	0.7	
PL2-JF02A	5.5 - 23	4/26/2001	0.7	
PL2-JF03A	6 - 23	10/31/2005	1	
PL2-JF03A	6 - 23	5/2/2005	0.9	
PL2-JF03A	6 - 23	11/1/2004	1	
PL2-JF03A	6 - 23	12/8/2003	0.8	
PL2-JF03A	6 - 23	6/16/2003	1.2	
PL2-JF03A	6 - 23	1/21/2002	0.9	
PL2-JF03A	6 - 23	10/24/2001	1.2	
PL2-JF03A	6 - 23	7/25/2001	1	
PL2-JF03A	6 - 23	4/26/2001	1.1	

South Yard Area Historic COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
GP-06637	14	3/15/1995	50	U
GP-06637	25	3/15/1995	50	U
GP-06637	45	3/15/1995	50	U
GP-06638	14	3/16/1995	50	U
GP-06638	25	3/16/1995	50	U
GP-06638	45	3/16/1995	50	U
GP-06639	14	3/16/1995	50	U
GP-06639	25	3/16/1995	50	U
GP-06639	45	3/16/1995	50	U
GP-06639	14	3/16/1995	50	U
GP-06640	14	3/15/1995	50	U
GP-06640	25	3/15/1995	50	U
GP-06640	45	3/15/1995	50	U
GP-06640	14	3/15/1995	50	U
GP-08007	15	2/17/1995	50	U
GP-08008	17	7/26/1995	50	U
GP-08008	25	7/26/1995	50	U
GP-08701	15	2/17/1995	50	U
GP-08901	14	9/14/1994	50	U
GP-08902	14	9/14/1994	50	U
GP-08903	14	9/14/1994	50	U
GP-08904	14	9/14/1994	50	U
GP-08905	14	9/13/1994	50	U
GP-08906	15	11/29/1994	50	U
GP-08906	25	11/29/1994	50	U
GP-08906	45	11/29/1994	50	U
GP-08906	65	11/29/1994	50	U
GP-08906	25	11/29/1994	50	U
GP-08907	63	11/29/1994	50	U
GP-08907	15	11/28/1994	50	U
GP-08907	25	11/28/1994	50	U
GP-08907	45	11/28/1994	50	U
GP-08908	14	3/17/1995	50	U
GP-08908	25	3/17/1995	50	U
GP-08908	45	3/17/1995	50	U
GP-09101	15	9/12/1994	50	U
GP-09101	15	9/12/1994	50	U
GP-09102	14	9/8/1994	50	U
GP-09103	14	9/8/1994	50	U
GP-09104	15	11/23/1994	50	U
GP-09104	25	11/23/1994	50	U
GP-09104	45	11/23/1994	50	U
GP-09105	15	11/23/1994	50	U
GP-09105	25	11/23/1994	50	U
GP-09105	45	11/23/1994	50	U
GP-09106	14	3/14/1995	50	U

South Yard Area Historic COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
GP-09106	25	3/14/1995	50	U
GP-09106	45	3/14/1995	50	U
GP-09107	14	3/14/1995	50	U
GP-09107	25	3/14/1995	50	U
GP-09107	45	3/14/1995	50	U
GP-09108	14	3/14/1995	50	U
GP-09108	25	3/14/1995	50	U
GP-09108	45	3/14/1995	50	U
GP-09109	14	3/15/1995	50	U
GP-09109	25	3/15/1995	50	U
GP-09109	45	3/15/1995	50	U
GP-09110	15	9/19/1995	50	U
GP-09110	25	9/19/1995	50	U
GP-09110	45	9/19/1995	50	U
GP-09111	15	9/20/1995	50	U
GP-09111	25	9/20/1995	50	U
GP-09111	45	9/20/1995	50	U
GP-09112	15	9/19/1995	50	U
GP-09112	25	9/19/1995	50	U
GP-09112	45	9/19/1995	50	U
GP-09113	15	9/19/1995	50	U
GP-09113	25	9/19/1995	50	U
GP-09113	45	9/19/1995	50	U
GP-09114	15	9/20/1995	50	U
GP-09114	25	9/20/1995	50	U
GP-09114	45	9/20/1995	50	U
GP-09114	45	9/20/1995	50	U
GP-09115	15	9/19/1995	50	U
GP-09115	25	9/19/1995	50	U
GP-09115	45	9/19/1995	50	U
PL2-101A	13 - 21	3/24/1995	50	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-101B	45 - 55	3/24/1995	50	U
PL2-101B	45 - 55	7/15/1992	1	U
PL2-101C	71 - 81	7/15/1992	5	U
PL2-102A	8.5 - 18.5	3/24/1995	50	U
PL2-102A	8.5 - 18.5	7/17/1992	1	U
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	5	U
PL2-104C	76 - 96	7/16/1992	5	U
PL2-105A	7.5 - 27.5	7/16/1992	1	U
PL2-105B	39 - 49	7/16/1992	1	U

South Yard Area Historic COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
PL2-105C	77 - 87	7/16/1992	5	U
PL2-106A	8 - 28	1/22/2001	50	U
PL2-106A	8 - 28	8/4/2000	50	U
PL2-106A	8 - 28	3/24/1995	50	U
PL2-106A	8 - 28	7/15/1992	1	U
PL2-106AR	8 - 16	8/20/2002	0.5	U
PL2-106B	39 - 49	3/28/1995	50	U
PL2-106B	39 - 49	7/15/1992	1	U
PL2-106C	82.5 - 92.5	7/15/1992	5	U
PL2-107A	10 - 20	7/17/1992	1	U
PL2-108A	10 - 20	7/17/1992	1	U
PL2-109A	8 - 18	7/16/1992	1	U
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	5	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110B	47 - 57	7/15/1992	1	U
PL2-110C	82 - 92	7/15/1992	5	U
PL2-112A	8.5 - 18.5	8/15/2002	0.5	U
PL2-112A	8.5 - 18.5	3/31/1995	50	U
PL2-112B	40 - 50	8/15/2002	2.1	
PL2-113A	8 - 18	8/20/2002	0.5	U
PL2-115A	7.5 - 17.7	8/20/2002	0.5	U
PL2-116A	7.5 - 17.8	8/20/2002	0.5	U
PL2-117A	7.9 - 17.9	8/16/2002	0.7	
PL2-118A	8 - 18	9/23/1994	50	U
PL2-119A	8 - 18	9/26/1994	50	U
PL2-120A	8 - 18	9/26/1994	50	U
PL2-151A	6 - 16	1/23/2001	50	U
PL2-151A	6 - 16	8/3/2000	50	U
PL2-151B	45 - 50	1/23/2001	50	U
PL2-151B	45 - 50	8/2/2000	50	U
PL2-151C	75 - 80	1/23/2001	100	
PL2-151C	75 - 80	8/3/2000	50	U
PL2-152A	6 - 16	1/24/2001	50	U
PL2-152A	6 - 16	8/3/2000	50	U
PL2-152B	45 - 50	1/24/2001	50	U
PL2-152B	45 - 50	8/3/2000	50	U
PL2-152C	80 - 85	1/24/2001	100	
PL2-152C	80 - 85	8/3/2000	60	
PL2-153A	6 - 16	1/25/2001	50	U
PL2-153B	45 - 50	1/24/2001	90	
PL2-153C	80 - 85	1/24/2001	70	
PL2-154A	6 - 16	1/25/2001	50	U
PL2-154B	45 - 50	1/25/2001	50	U
PL2-154C	80 - 85	1/25/2001	130	

South Yard Area Historic COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
PL2-155A	6 - 16	1/22/2001	50	U
PL2-155A	6 - 16	8/4/2000	50	U
PL2-155B	45 - 50	1/23/2001	50	U
PL2-155B	45 - 50	8/4/2000	50	U
PL2-155C	80 - 85	1/22/2001	70	
PL2-155C	80 - 85	8/4/2000	50	U
PL2-156A	6 - 16	1/23/2001	50	U
PL2-156A	6 - 16	1/23/2001	50	U
PL2-156A	6 - 16	8/4/2000	50	U
PL2-301A	8 - 23	7/7/1992	2	
PL2-301A	8 - 23	7/7/1992	1	
PL2-302A	7 - 22	9/27/1994	50	U
PL2-302A	7 - 22	7/7/1992	1	
PL2-303A	8 - 13	7/7/1992	5	U
PL2-304A		7/7/1992	1	
PL2-305A		7/7/1992	1	
PL2-320A	8 - 18	3/24/1995	50	U
PL2-320A	8 - 18	3/24/1995	50	U
PL2-320A	8 - 18	9/23/1994	50	U
PL2-BF01A	8 - 18	8/27/2002	0.5	U
PL2-BF01A	8 - 18	3/27/1995	50	U
PL2-BF01A	8 - 18	9/22/1994	50	U
PL2-JF01A	7 - 17	3/10/1995	50	U
PL2-JF01AR	23.2 - 27	5/1/2006	50	U
PL2-JF01AR	23.2 - 27	2/6/2006	50	U
PL2-JF01AR	23.2 - 27	10/31/2005	50	U
PL2-JF01AR	23.2 - 27	8/1/2005	50	U
PL2-JF01AR	23.2 - 27	5/2/2005	50	U
PL2-JF01AR	23.2 - 27	5/2/2005	50	U
PL2-JF01AR	23.2 - 27	2/1/2005	50	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	8/2/2004	50	U
PL2-JF01AR	23.2 - 27	5/10/2004	50	U
PL2-JF01AR	23.2 - 27	2/2/2004	50	U
PL2-JF01AR	23.2 - 27	12/8/2003	50	U
PL2-JF01AR	23.2 - 27	9/2/2003	0.8	
PL2-JF01AR	23.2 - 27	6/16/2003	0.9	
PL2-JF01AR	23.2 - 27	1/21/2002	50	U
PL2-JF01AR	23.2 - 27	10/24/2001	50	U
PL2-JF01AR	23.2 - 27	10/24/2001	50	U
PL2-JF01AR	23.2 - 27	7/25/2001	50	U
PL2-JF01AR	23.2 - 27	5/17/2001	50	U
PL2-JF01B	40 - 50	5/1/2006	50	U
PL2-JF01B	40 - 50	2/6/2006	250	U
PL2-JF01B	40 - 50	10/31/2005	50	U

South Yard Area Historic COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
PL2-JF01B	40 - 50	8/1/2005	50	U
PL2-JF01B	40 - 50	5/2/2005	100	U
PL2-JF01B	40 - 50	2/1/2005	50	U
PL2-JF01B	40 - 50	11/1/2004	50	U
PL2-JF01B	40 - 50	8/2/2004	50	U
PL2-JF01B	40 - 50	5/10/2004	100	U
PL2-JF01B	40 - 50	2/2/2004	50	U
PL2-JF01B	40 - 50	12/8/2003	50	U
PL2-JF01B	40 - 50	9/2/2003	1.4	
PL2-JF01B	40 - 50	6/16/2003	3	
PL2-JF01B	40 - 50	1/21/2002	50	U
PL2-JF01B	40 - 50	10/24/2001	50	U
PL2-JF01B	40 - 50	7/25/2001	60	
PL2-JF01B	40 - 50	4/26/2001	50	U
PL2-JF01B	40 - 50	3/31/1995	50	U
PL2-JF01C	74 - 78.5	5/1/2006	0.105	
PL2-JF01C	74 - 78.5	2/6/2006	0.19	
PL2-JF01C	74 - 78.5	10/31/2005	0.238	
PL2-JF01C	74 - 78.5	8/1/2005	0.171	
PL2-JF01C	74 - 78.5	5/2/2005	0.04	UJ
PL2-JF01C	74 - 78.5	2/1/2005	200	U
PL2-JF01C	74 - 78.5	12/8/2003	100	U
PL2-JF01C	74 - 78.5	12/8/2003	0.18	
PL2-JF01C	74 - 78.5	6/16/2003	12	
PL2-JF01C	74 - 78.5	1/21/2002	50	U
PL2-JF01C	74 - 78.5	10/24/2001	90	
PL2-JF01C	74 - 78.5	7/25/2001	70	
PL2-JF01C	74 - 78.5	5/17/2001	120	
PL2-JF02A	5.5 - 23	5/1/2006	50	U
PL2-JF02A	5.5 - 23	2/6/2006	50	U
PL2-JF02A	5.5 - 23	10/31/2005	50	U
PL2-JF02A	5.5 - 23	8/1/2005	50	U
PL2-JF02A	5.5 - 23	5/2/2005	50	U
PL2-JF02A	5.5 - 23	2/1/2005	50	U
PL2-JF02A	5.5 - 23	11/1/2004	50	U
PL2-JF02A	5.5 - 23	8/2/2004	50	U
PL2-JF02A	5.5 - 23	5/10/2004	50	U
PL2-JF02A	5.5 - 23	2/2/2004	50	U
PL2-JF02A	5.5 - 23	12/8/2003	50	U
PL2-JF02A	5.5 - 23	9/2/2003	2	
PL2-JF02A	5.5 - 23	6/16/2003	2	U
PL2-JF02A	5.5 - 23	1/21/2002	50	U
PL2-JF02A	5.5 - 23	10/24/2001	50	U
PL2-JF02A	5.5 - 23	7/25/2001	50	U
PL2-JF02A	5.5 - 23	4/26/2001	50	U
PL2-JF03A	6 - 23	10/31/2005	50	U

South Yard Area Historic COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
PL2-JF03A	6 - 23	5/2/2005	50	U
PL2-JF03A	6 - 23	11/1/2004	50	U
PL2-JF03A	6 - 23	12/8/2003	50	U
PL2-JF03A	6 - 23	6/16/2003	0.5	U
PL2-JF03A	6 - 23	1/21/2002	50	U
PL2-JF03A	6 - 23	10/24/2001	50	U
PL2-JF03A	6 - 23	7/25/2001	50	U
PL2-JF03A	6 - 23	4/26/2001	50	U

South Yard Area Historic COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
GP-06637	14	3/15/1995	91	
GP-06637	25	3/15/1995	76	
GP-06637	45	3/15/1995	59	
GP-06638	14	3/16/1995	111	
GP-06638	25	3/16/1995	293	
GP-06638	45	3/16/1995	18	B
GP-06639	14	3/16/1995	40	B
GP-06639	25	3/16/1995	6	B
GP-06639	45	3/16/1995	4	U
GP-06639	14	3/16/1995	36	B
GP-06640	14	3/15/1995	106	
GP-06640	25	3/15/1995	10	B
GP-06640	45	3/15/1995	68	
GP-06640	14	3/15/1995	105	
GP-08007	15	2/17/1995	8	J
GP-08008	17	7/26/1995	4	UJ
GP-08008	25	7/26/1995	4	UJB
GP-08701	15	2/17/1995	16	J
GP-08901	14	9/14/1994	4	U
GP-08902	14	9/14/1994	4	U
GP-08903	14	9/14/1994	4	
GP-08904	14	9/14/1994	7	
GP-08905	14	9/13/1994	6	
GP-08906	15	11/29/1994	4	UB
GP-08906	25	11/29/1994	4	U
GP-08906	45	11/29/1994	5	UB
GP-08906	65	11/29/1994	4	U
GP-08906	25	11/29/1994	6	UB
GP-08907	63	11/29/1994	4	UB
GP-08907	15	11/28/1994	9	
GP-08907	25	11/28/1994	6	
GP-08907	45	11/28/1994	4	
GP-08908	14	3/17/1995	4	
GP-08908	25	3/17/1995	7	
GP-08908	45	3/17/1995	4	U
GP-09101	15	9/12/1994	7	
GP-09101	15	9/12/1994	4	U
GP-09102	14	9/8/1994	5	
GP-09103	14	9/8/1994	4	
GP-09104	15	11/23/1994	4	U
GP-09104	25	11/23/1994	4	U
GP-09104	45	11/23/1994	4	U
GP-09105	15	11/23/1994	4	U
GP-09105	25	11/23/1994	4	U
GP-09105	45	11/23/1994	7	
GP-09106	14	3/14/1995	46	

South Yard Area Historic COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
GP-09106	25	3/14/1995	4	U
GP-09106	45	3/14/1995	4	U
GP-09107	14	3/14/1995	4	U
GP-09107	25	3/14/1995	4	U
GP-09107	45	3/14/1995	4	U
GP-09108	14	3/14/1995	4	U
GP-09108	25	3/14/1995	4	U
GP-09108	45	3/14/1995	4	U
GP-09109	14	3/15/1995	6	B
GP-09109	25	3/15/1995	4	U
GP-09109	45	3/15/1995	5	B
GP-09110	15	9/19/1995	5	
GP-09110	25	9/19/1995	4	U
GP-09110	45	9/19/1995	4	U
GP-09111	15	9/20/1995	4	U
GP-09111	25	9/20/1995	4	U
GP-09111	45	9/20/1995	4	U
GP-09112	15	9/19/1995	4	U
GP-09112	25	9/19/1995	4	U
GP-09112	45	9/19/1995	4	U
GP-09113	15	9/19/1995	4	U
GP-09113	25	9/19/1995	4	U
GP-09113	45	9/19/1995	4	U
GP-09114	15	9/20/1995	4	U
GP-09114	25	9/20/1995	4	U
GP-09114	45	9/20/1995	4	U
GP-09114	45	9/20/1995	4	U
GP-09115	15	9/19/1995	4	U
GP-09115	25	9/19/1995	4	U
GP-09115	45	9/19/1995	4	U
PL2-101A	13 - 21	3/24/1995	4	U
PL2-101A	13 - 21	7/15/1992	4	U
PL2-101A	13 - 21	7/15/1992	5	
PL2-101A	13 - 21	5/4/1988	2	U
PL2-101B	45 - 55	3/24/1995	4	U
PL2-101B	45 - 55	7/15/1992	4	U
PL2-101C	71 - 81	7/15/1992	4	U
PL2-102A	8.5 - 18.5	3/24/1995	49	
PL2-102A	8.5 - 18.5	7/17/1992	20	
PL2-102A	8.5 - 18.5	5/4/1988	57	
PL2-102B	47 - 57	7/17/1992	4	U
PL2-102C	77 - 87	7/17/1992	9	
PL2-103A	4 - 20	5/4/1988	2	U
PL2-104A	7 - 27	7/16/1992	5	
PL2-104A	7 - 27	5/4/1988	2	U
PL2-104B	40 - 50	7/16/1992	6	

South Yard Area Historic COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
PL2-104C	76 - 96	7/16/1992	12	
PL2-104C	76 - 96	7/16/1992	5	
PL2-104C	76 - 96	5/4/1988	2	U
PL2-105A	7.5 - 27.5	7/16/1992	4	
PL2-105A	7.5 - 27.5	5/4/1988	2	U
PL2-105B	39 - 49	7/16/1992	4	U
PL2-105C	77 - 87	7/16/1992	4	U
PL2-106A	8 - 28	1/22/2001	6	U
PL2-106A	8 - 28	8/4/2000	6	U
PL2-106A	8 - 28	3/24/1995	4	U
PL2-106A	8 - 28	7/15/1992	4	
PL2-106A	8 - 28	5/4/1988	2	U
PL2-106AR	8 - 16	8/20/2002	6	U
PL2-106B	39 - 49	3/28/1995	4	U
PL2-106B	39 - 49	7/15/1992	4	
PL2-106C	82.5 - 92.5	7/15/1992	4	U
PL2-107A	10 - 20	7/17/1992	20	
PL2-108A	10 - 20	7/17/1992	4	U
PL2-109A	8 - 18	7/16/1992	11	
PL2-109B	38 - 48	7/16/1992	7	
PL2-109C	78 - 88	7/16/1992	8	
PL2-110A	9 - 19	7/15/1992	4	U
PL2-110A	9 - 19	7/15/1992	4	U
PL2-110B	47 - 57	7/15/1992	4	U
PL2-110C	82 - 92	7/15/1992	4	U
PL2-112A	8.5 - 18.5	8/15/2002	6	
PL2-112A	8.5 - 18.5	3/31/1995	4	U
PL2-112A	8.5 - 18.5	1/18/1989	11	
PL2-112B	40 - 50	8/15/2002	7	
PL2-113A	8 - 18	8/20/2002	6	U
PL2-113A	8 - 18	1/18/1989	15	
PL2-114A	8.5 - 18.5	1/18/1989	32	
PL2-115A	7.5 - 17.7	8/20/2002	7	
PL2-116A	7.5 - 17.8	8/20/2002	8	
PL2-117A	7.9 - 17.9	8/16/2002	9	
PL2-117A	7.9 - 17.9	1/18/1989	22	
PL2-118A	8 - 18	9/23/1994	5	
PL2-119A	8 - 18	9/26/1994	4	U
PL2-120A	8 - 18	9/26/1994	4	U
PL2-151A	6 - 16	1/23/2001	6	U
PL2-151A	6 - 16	8/3/2000	6	U
PL2-151B	45 - 50	1/23/2001	6	U
PL2-151B	45 - 50	8/2/2000	6	U
PL2-151C	75 - 80	1/23/2001	6	U
PL2-151C	75 - 80	8/3/2000	16	
PL2-152A	6 - 16	1/24/2001	6	U

South Yard Area Historic COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
PL2-152A	6 - 16	8/3/2000	7	
PL2-152B	45 - 50	1/24/2001	6	U
PL2-152B	45 - 50	8/3/2000	6	U
PL2-152C	80 - 85	1/24/2001	6	U
PL2-152C	80 - 85	8/3/2000	6	U
PL2-153A	6 - 16	1/25/2001	6	U
PL2-153B	45 - 50	1/24/2001	10	
PL2-153C	80 - 85	1/24/2001	13	
PL2-154A	6 - 16	1/25/2001	6	U
PL2-154B	45 - 50	1/25/2001	6	U
PL2-154C	80 - 85	1/25/2001	6	U
PL2-155A	6 - 16	1/22/2001	6	U
PL2-155A	6 - 16	8/4/2000	6	U
PL2-155B	45 - 50	1/23/2001	6	U
PL2-155B	45 - 50	8/4/2000	6	U
PL2-155C	80 - 85	1/22/2001	6	U
PL2-155C	80 - 85	8/4/2000	10	
PL2-156A	6 - 16	1/23/2001	6	U
PL2-156A	6 - 16	1/23/2001	6	U
PL2-156A	6 - 16	8/4/2000	6	U
PL2-301A	8 - 23	7/7/1992	21	
PL2-301A	8 - 23	7/7/1992	23	
PL2-302A	7 - 22	9/27/1994	13	
PL2-302A	7 - 22	7/7/1992	34	
PL2-303A	8 - 13	7/7/1992	35	
PL2-304A		7/7/1992	13	
PL2-305A		7/7/1992	26	
PL2-320A	8 - 18	3/24/1995	4	U
PL2-320A	8 - 18	3/24/1995	4	U
PL2-320A	8 - 18	9/23/1994	5	
PL2-BF01A	8 - 18	8/27/2002	8	
PL2-BF01A	8 - 18	3/27/1995	6	
PL2-BF01A	8 - 18	9/22/1994	5	
PL2-JF01A	7 - 17	3/10/1995	5	
PL2-JF01AR	23.2 - 27	5/1/2006	6	U
PL2-JF01AR	23.2 - 27	2/6/2006	6	U
PL2-JF01AR	23.2 - 27	10/31/2005	6	U
PL2-JF01AR	23.2 - 27	8/1/2005	6	U
PL2-JF01AR	23.2 - 27	5/2/2005	6	U
PL2-JF01AR	23.2 - 27	5/2/2005	6	U
PL2-JF01AR	23.2 - 27	2/1/2005	6	U
PL2-JF01AR	23.2 - 27	11/1/2004	6	U
PL2-JF01AR	23.2 - 27	11/1/2004	6	U
PL2-JF01AR	23.2 - 27	8/2/2004	6	U
PL2-JF01AR	23.2 - 27	5/10/2004	6	U
PL2-JF01AR	23.2 - 27	2/2/2004	6	U

South Yard Area Historic COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
PL2-JF01AR	23.2 - 27	12/8/2003	6	U
PL2-JF01AR	23.2 - 27	9/2/2003	6	
PL2-JF01AR	23.2 - 27	6/16/2003	6	U
PL2-JF01AR	23.2 - 27	1/21/2002	6	U
PL2-JF01AR	23.2 - 27	10/24/2001	6	U
PL2-JF01AR	23.2 - 27	10/24/2001	6	U
PL2-JF01AR	23.2 - 27	7/25/2001	6	U
PL2-JF01AR	23.2 - 27	5/17/2001	6	UJ
PL2-JF01B	40 - 50	5/1/2006	6	U
PL2-JF01B	40 - 50	2/6/2006	30	U
PL2-JF01B	40 - 50	10/31/2005	6	U
PL2-JF01B	40 - 50	8/1/2005	6	U
PL2-JF01B	40 - 50	5/2/2005	10	U
PL2-JF01B	40 - 50	2/1/2005	6	U
PL2-JF01B	40 - 50	11/1/2004	6	U
PL2-JF01B	40 - 50	8/2/2004	6	U
PL2-JF01B	40 - 50	5/10/2004	10	U
PL2-JF01B	40 - 50	2/2/2004	6	U
PL2-JF01B	40 - 50	12/8/2003	6	U
PL2-JF01B	40 - 50	9/2/2003	4	U
PL2-JF01B	40 - 50	6/16/2003	6	U
PL2-JF01B	40 - 50	1/21/2002	6	U
PL2-JF01B	40 - 50	10/24/2001	6	U
PL2-JF01B	40 - 50	7/25/2001	6	U
PL2-JF01B	40 - 50	4/26/2001	6	UJ
PL2-JF01B	40 - 50	3/31/1995	4	U
PL2-JF01C	74 - 78.5	5/1/2006	10	U
PL2-JF01C	74 - 78.5	2/6/2006	7	
PL2-JF01C	74 - 78.5	10/31/2005	10	U
PL2-JF01C	74 - 78.5	8/1/2005	10	U
PL2-JF01C	74 - 78.5	5/2/2005	60	U
PL2-JF01C	74 - 78.5	2/1/2005	30	U
PL2-JF01C	74 - 78.5	11/1/2004	10	U
PL2-JF01C	74 - 78.5	12/8/2003	10	U
PL2-JF01C	74 - 78.5	6/16/2003	10	U
PL2-JF01C	74 - 78.5	1/21/2002	6	U
PL2-JF01C	74 - 78.5	10/24/2001	6	U
PL2-JF01C	74 - 78.5	7/25/2001	6	U
PL2-JF01C	74 - 78.5	5/17/2001	60	
PL2-JF02A	5.5 - 23	5/1/2006	6	U
PL2-JF02A	5.5 - 23	2/6/2006	7	
PL2-JF02A	5.5 - 23	10/31/2005	6	U
PL2-JF02A	5.5 - 23	8/1/2005	6	U
PL2-JF02A	5.5 - 23	5/2/2005	6	U
PL2-JF02A	5.5 - 23	2/1/2005	6	U
PL2-JF02A	5.5 - 23	11/1/2004	6	U

South Yard Area Historic COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
PL2-JF02A	5.5 - 23	8/2/2004	6	U
PL2-JF02A	5.5 - 23	5/10/2004	6	U
PL2-JF02A	5.5 - 23	2/2/2004	6	U
PL2-JF02A	5.5 - 23	12/8/2003	6	U
PL2-JF02A	5.5 - 23	9/2/2003	4	U
PL2-JF02A	5.5 - 23	6/16/2003	9	
PL2-JF02A	5.5 - 23	1/21/2002	6	U
PL2-JF02A	5.5 - 23	10/24/2001	6	U
PL2-JF02A	5.5 - 23	7/25/2001	6	U
PL2-JF02A	5.5 - 23	4/26/2001	6	UJ
PL2-JF03A	6 - 23	10/31/2005	6	U
PL2-JF03A	6 - 23	5/2/2005	6	U
PL2-JF03A	6 - 23	11/1/2004	6	U
PL2-JF03A	6 - 23	12/8/2003	6	U
PL2-JF03A	6 - 23	6/16/2003	6	U
PL2-JF03A	6 - 23	1/21/2002	6	U
PL2-JF03A	6 - 23	10/24/2001	6	U
PL2-JF03A	6 - 23	7/25/2001	6	U
PL2-JF03A	6 - 23	4/26/2001	6	UJ

South Yard Area Historic COC Results
2,4-Dimethylphenol Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
2,4-Dimethylphenol - 2004 Groundwater Screening Level = 273 µg/L				
GP-08701	15	2/17/1995	3	U
GP-08901	14	9/14/1994	2	U
GP-08901	14	9/14/1994	2	U
GP-08902	14	9/14/1994	2	R
GP-08903	14	9/14/1994	2	U
GP-08904	14	9/14/1994	2	U
GP-08905	14	9/13/1994	2	U
GP-09101	15	9/12/1994	2	U
GP-09102	14	9/8/1994	2	U
GP-09103	14	9/8/1994	2	U
PL2-101A	13 - 21	7/15/1992	2	U
PL2-101B	45 - 55	7/15/1992	2	U
PL2-102A	8.5 - 18.5	7/17/1992	1.4	
PL2-102B	47 - 57	7/17/1992	2	U
PL2-103A	4 - 20	7/17/1992	2	U
PL2-104A	7 - 27	7/16/1992	2	U
PL2-104B	40 - 50	7/16/1992	2	U
PL2-105A	7.5 - 27.5	7/16/1992	2	U
PL2-105B	39 - 49	7/16/1992	2	U
PL2-106A	8 - 28	7/15/1992	2	U
PL2-106B	39 - 49	7/15/1992	2	U
PL2-107A	10 - 20	7/17/1992	2	U
PL2-108A	10 - 20	7/17/1992	2	U
PL2-109A	8 - 18	7/16/1992	2	U
PL2-109B	38 - 48	7/16/1992	2	U
PL2-110A	9 - 19	7/15/1992	2	U
PL2-110A	9 - 19	7/15/1992	2	U
PL2-111A	8 - 18	12/22/1993	2	U
PL2-111A	8 - 18	12/22/1993	2	U
PL2-112A	8.5 - 18.5	1/18/1989	2	U
PL2-113A	8 - 18	1/18/1989	2	U
PL2-114A	8.5 - 18.5	1/18/1989	520	
PL2-117A	7.9 - 17.9	1/18/1989	2	U
PL2-118A	8 - 18	9/23/1994	3	UJ
PL2-119A	8 - 18	9/26/1994	3	U
PL2-120A	8 - 18	9/26/1994	3	R

South Yard Area Historic COC Results

bis(2-Ethylhexyl)phthalate Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
bis(2-Ethylhexyl)phthalate - 2004 Groundwater Screening Level = 3 µg/L				
GP-08701	15	2/17/1995	1	U
GP-08901	14	9/14/1994	12	J
GP-08901	14	9/14/1994	1	UJ
GP-08902	14	9/14/1994	1	U
GP-08903	14	9/14/1994	1	U
GP-08904	14	9/14/1994	1	U
GP-08905	14	9/13/1994	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-101A	13 - 21	5/4/1988	5	U
PL2-101B	45 - 55	7/15/1992	1	U
PL2-102A	8.5 - 18.5	7/17/1992	0.9	J
PL2-102A	8.5 - 18.5	5/4/1988	5	
PL2-102B	47 - 57	7/17/1992	1	U
PL2-103A	4 - 20	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	5	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104A	7 - 27	5/4/1988	5	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	5/4/1988	5	
PL2-105A	7.5 - 27.5	7/16/1992	1	U
PL2-105A	7.5 - 27.5	5/4/1988	5	U
PL2-105B	39 - 49	7/16/1992	1	U
PL2-106A	8 - 28	7/15/1992	1	U
PL2-106A	8 - 28	5/4/1988	5	U
PL2-106B	39 - 49	7/15/1992	1	U
PL2-107A	10 - 20	7/17/1992	1	U
PL2-108A	10 - 20	7/17/1992	1	U
PL2-109A	8 - 18	7/16/1992	1	U
PL2-109B	38 - 48	7/16/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-111A	8 - 18	12/22/1993	1	U
PL2-111A	8 - 18	12/22/1993	1	U
PL2-112A	8.5 - 18.5	1/18/1989	6	
PL2-113A	8 - 18	1/18/1989	6	
PL2-114A	8.5 - 18.5	1/18/1989	7	
PL2-117A	7.9 - 17.9	1/18/1989	13	
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Aroclor 1254 - 2004 Groundwater Screening Level = 0.01 µg/L				
GP-06601	13	9/12/1994	1	U
GP-06602	14	9/13/1994	1	U
GP-06603	14	9/12/1994	1	U
GP-06604	14	9/13/1994	1	U
GP-08701	15	2/17/1995	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-102A	8.5 - 18.5	7/17/1992	1.9	
PL2-103A	4 - 20	7/17/1992	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-105A	7.5 - 27.5	7/16/1992	1	U
PL2-106A	8 - 28	8/4/2000	0.01	U
PL2-106A	8 - 28	7/15/1992	1	U
PL2-106AR	8 - 16	2/22/2001	0.017	UJ
PL2-107A	10 - 20	7/17/1992	0.53	J
PL2-108A	10 - 20	7/17/1992	1	U
PL2-109A	8 - 18	7/16/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-111A	8 - 18	12/22/1993	1.1	U
PL2-111A	8 - 18	12/22/1993	1	U
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	2/23/2001	0.017	U
PL2-151A	6 - 16	8/3/2000	0.01	U
PL2-151B	45 - 50	2/23/2001	0.017	U
PL2-151B	45 - 50	8/2/2000	0.01	U
PL2-151C	75 - 80	2/23/2001	0.017	U
PL2-151C	75 - 80	8/3/2000	0.01	U
PL2-152A	6 - 16	2/26/2001	0.12	
PL2-152A	6 - 16	2/26/2001	0.12	
PL2-152A	6 - 16	8/3/2000	0.36	
PL2-152B	45 - 50	2/26/2001	0.062	
PL2-152B	45 - 50	8/3/2000	0.042	
PL2-152C	80 - 85	2/26/2001	0.017	U
PL2-152C	80 - 85	8/3/2000	0.011	
PL2-153A	6 - 16	2/26/2001	0.017	U
PL2-153B	45 - 50	2/26/2001	0.017	U
PL2-153C	80 - 85	2/27/2001	0.017	U
PL2-154A	6 - 16	2/27/2001	0.017	U
PL2-154B	45 - 50	2/27/2001	0.017	U
PL2-154C	80 - 85	2/27/2001	0.017	U
PL2-155A	6 - 16	2/23/2001	0.017	U

South Yard Area Historic COC Results
Aroclor 1254 Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Aroclor 1254 - 2004 Groundwater Screening Level = 0.01 µg/L				
PL2-155A	6 - 16	8/4/2000	0.028	UI
PL2-155B	45 - 50	2/23/2001	0.017	UJ
PL2-155B	45 - 50	8/4/2000	0.01	U
PL2-155C	80 - 85	2/23/2001	0.017	U
PL2-155C	80 - 85	8/4/2000	0.013	UI
PL2-156A	6 - 16	2/27/2001	0.017	U
PL2-156A	6 - 16	8/4/2000	0.018	
PL2-JF01A	7 - 17	2/17/2005	0.015	UY
PL2-JF01A	7 - 17	2/17/2005	0.015	UY
PL2-JF01A	7 - 17	11/21/1996	1	U
PL2-JF01A	7 - 17	8/26/1996	1	U
PL2-JF01A	7 - 17	5/23/1996	1	U
PL2-JF01A	7 - 17	3/1/1996	1	U
PL2-JF01A	7 - 17	11/17/1995	1	U
PL2-JF01A	7 - 17	9/27/1995	1	U
PL2-JF01AR	23.2 - 27	6/16/2003	0.01	U
PL2-JF02A	5.5 - 23	6/16/2003	0.01	U
PL2-JF04A	8 - 18	2/18/2005	0.01	U

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
GP-06601	13	9/12/1994	1	U
GP-06601	23	9/12/1994	1	U
GP-06601	45	9/12/1994	1	U
GP-06602	14	9/13/1994	32	
GP-06602	24	9/13/1994	1	U
GP-06602	45	9/13/1994	1	U
GP-06603	14	9/12/1994	1	U
GP-06603	24	9/12/1994	1.8	
GP-06603	45	9/12/1994	5.2	
GP-06604	14	9/13/1994	300	
GP-06604	24	9/13/1994	1	U
GP-06604	45	9/13/1994	1	U
GP-06604	24	9/13/1994	1	U
GP-06633	15	11/28/1994	1	U
GP-06633	25	11/28/1994	29	
GP-06633	45	11/28/1994	1	UJH
GP-06633	65	11/28/1994	1	UJH
GP-06633	25	11/28/1994	23	
GP-06634	15	11/22/1994	1	U
GP-06634	25	11/22/1994	1	U
GP-06634	45	11/22/1994	1	UJ
GP-06634	65	11/22/1994	1	U
GP-06635	15	11/22/1994	1	U
GP-06635	25	11/22/1994	1	UJ
GP-06635	45	11/22/1994	2.3	
GP-06635	65	11/22/1994	1	U
GP-06636	15	11/21/1994	1.2	J
GP-06636	25	11/21/1994	7.8	
GP-06636	45	11/21/1994	12	
GP-06636	65	11/21/1994	1	U
GP-06637	14	3/15/1995	1	U
GP-06637	25	3/15/1995	1	
GP-06637	45	3/15/1995	1	U
GP-06638	14	3/16/1995	1	U
GP-06638	25	3/16/1995	4.4	
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06639	25	3/16/1995	16	
GP-06639	45	3/16/1995	7.2	
GP-06639	14	3/16/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-06640	25	3/15/1995	1	U
GP-06640	45	3/15/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-08001	13	9/2/1994	1	U
GP-08002	13	9/8/1994	1	U

South Yard Area Historic COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
GP-08002	13	9/8/1994	1	U
GP-08003	12	8/25/1994	1	U
GP-08007	15	2/17/1995	1	U
GP-08008	17	7/26/1995	1	U
GP-08008	25	7/26/1995	1	U
GP-08701	15	2/17/1995	1	U
GP-08901	14	9/14/1994	1	U
GP-08901	24	9/14/1994	12	
GP-08902	14	9/14/1994	1	U
GP-08902	24	9/14/1994	1	U
GP-08903	14	9/14/1994	1	U
GP-08903	24	9/14/1994	1	U
GP-08904	14	9/14/1994	1	U
GP-08904	24	9/14/1994	1	U
GP-08905	14	9/13/1994	1	U
GP-08905	24	9/13/1994	1	U
GP-08906	15	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08906	45	11/29/1994	1	U
GP-08906	65	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08907	63	11/29/1994	1	U
GP-08907	15	11/28/1994	1	U
GP-08907	25	11/28/1994	1	U
GP-08907	45	11/28/1994	1	U
GP-08908	14	3/17/1995	1	U
GP-08908	25	3/17/1995	1	U
GP-08908	45	3/17/1995	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
GP-09104	15	11/23/1994	1	U
GP-09104	25	11/23/1994	2.7	
GP-09104	45	11/23/1994	1	U
GP-09105	15	11/23/1994	1	U
GP-09105	25	11/23/1994	4.1	
GP-09105	45	11/23/1994	1	U
GP-09106	14	3/14/1995	1	U
GP-09106	25	3/14/1995	1	U
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	1	U
GP-09107	25	3/14/1995	7.2	
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	1	U
GP-09108	25	3/14/1995	5.4	
GP-09108	45	3/14/1995	1	U

South Yard Area Historic COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
GP-09109	14	3/15/1995	1	U
GP-09109	25	3/15/1995	5.8	
GP-09109	45	3/15/1995	1	U
GP-09110	15	9/19/1995	1	U
GP-09110	25	9/19/1995	1	U
GP-09110	45	9/19/1995	1	U
GP-09111	15	9/20/1995	1	U
GP-09111	25	9/20/1995	1	U
GP-09111	45	9/20/1995	1	U
GP-09112	15	9/19/1995	1	U
GP-09112	25	9/19/1995	1	U
GP-09112	45	9/19/1995	1	U
GP-09113	15	9/19/1995	1	U
GP-09113	25	9/19/1995	1	U
GP-09113	45	9/19/1995	1	U
GP-09114	15	9/20/1995	1.3	
GP-09114	25	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09115	15	9/19/1995	1	U
GP-09115	25	9/19/1995	1	U
GP-09115	45	9/19/1995	1.5	
PL2-101A	13 - 21	3/24/1995	1	U
PL2-101A	13 - 21	7/15/1992	1.1	
PL2-101A	13 - 21	7/15/1992	1.4	
PL2-101A	13 - 21	5/4/1988	7	
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101C	71 - 81	7/15/1992	1	U
PL2-102A	8.5 - 18.5	3/24/1995	100	U
PL2-102A	8.5 - 18.5	7/17/1992	1	U
PL2-102A	8.5 - 18.5	5/4/1988	1	U
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	1	U
PL2-103A	4 - 20	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104A	7 - 27	5/4/1988	1	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	5/4/1988	1	U
PL2-105A	7.5 - 27.5	7/16/1992	1.5	
PL2-105A	7.5 - 27.5	5/4/1988	1	U
PL2-105B	39 - 49	7/16/1992	1	U
PL2-105C	77 - 87	7/16/1992	1	U
PL2-106A	8 - 28	1/22/2001	1	U

South Yard Area Historic COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
PL2-106A	8 - 28	8/4/2000	1	U
PL2-106A	8 - 28	8/22/1996	1	U
PL2-106A	8 - 28	3/4/1996	1	U
PL2-106A	8 - 28	3/4/1996	1	U
PL2-106A	8 - 28	11/21/1995	1.4	
PL2-106A	8 - 28	8/17/1995	1.4	
PL2-106A	8 - 28	3/24/1995	5	U
PL2-106A	8 - 28	7/15/1992	0.8	J
PL2-106A	8 - 28	5/4/1988	1	U
PL2-106B	39 - 49	3/28/1995	1	U
PL2-106B	39 - 49	7/15/1992	1	U
PL2-106C	82.5 - 92.5	7/15/1992	1	U
PL2-107A	10 - 20	7/17/1992	1	U
PL2-109A	8 - 18	7/16/1992	1	U
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	1	U
PL2-110A	9 - 19	8/27/1996	2.2	
PL2-110A	9 - 19	2/29/1996	1	U
PL2-110A	9 - 19	11/14/1995	1.2	
PL2-110A	9 - 19	8/16/1995	3.2	
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110B	47 - 57	7/15/1992	1	U
PL2-110C	82 - 92	7/15/1992	1.8	U
PL2-111A	8 - 18	12/22/1993	1	U
PL2-112A	8.5 - 18.5	8/15/2002	1	U
PL2-112A	8.5 - 18.5	3/31/1995	1.7	
PL2-112A	8.5 - 18.5	8/2/1989	2	
PL2-112A	8.5 - 18.5	1/18/1989	1.6	
PL2-112B	40 - 50	8/15/2002	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-113A	8 - 18	8/20/2002	5.1	
PL2-113A	8 - 18	8/2/1989	4	U
PL2-113A	8 - 18	1/18/1989	8	U
PL2-114A	8.5 - 18.5	8/2/1989	18	
PL2-114A	8.5 - 18.5	1/18/1989	4.4	
PL2-115A	7.5 - 17.7	8/20/2002	1	U
PL2-115A	7.5 - 17.7	8/2/1989	0.4	U
PL2-116A	7.5 - 17.8	8/20/2002	1	U
PL2-116A	7.5 - 17.8	8/2/1989	0.4	U
PL2-117A	7.9 - 17.9	8/16/2002	1	U
PL2-117A	7.9 - 17.9	8/2/1989	0.4	U
PL2-117A	7.9 - 17.9	1/18/1989	0.4	U
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	8/23/1996	1	U

South Yard Area Historic COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
PL2-119A	8 - 18	3/4/1996	1	U
PL2-119A	8 - 18	11/14/1995	1	U
PL2-119A	8 - 18	8/4/1995	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	1/23/2001	1	U
PL2-151A	6 - 16	8/3/2000	1	U
PL2-151B	45 - 50	1/23/2001	1	U
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	1	U
PL2-151C	75 - 80	8/3/2000	1	U
PL2-152A	6 - 16	1/24/2001	1	U
PL2-152A	6 - 16	8/3/2000	1	U
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	1	U
PL2-152C	80 - 85	8/3/2000	1	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	1	U
PL2-154A	6 - 16	1/25/2001	1	U
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	1	U
PL2-155A	6 - 16	1/22/2001	1	U
PL2-155A	6 - 16	8/4/2000	1	U
PL2-155B	45 - 50	1/23/2001	1	U
PL2-155B	45 - 50	8/4/2000	1	U
PL2-155C	80 - 85	1/22/2001	1	U
PL2-155C	80 - 85	8/4/2000	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	8/4/2000	1.6	
PL2-301A	8 - 23	7/7/1992	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-302A	7 - 22	7/7/1992	1	U
PL2-303A	8 - 13	7/7/1992	1	U
PL2-304A		3/24/1995	48	
PL2-304A		7/7/1992	200	
PL2-305A		7/7/1992	1	U
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-JF01A	7 - 17	11/21/1996	1.2	
PL2-JF01A	7 - 17	8/26/1996	3.9	
PL2-JF01A	7 - 17	5/23/1996	2.2	
PL2-JF01A	7 - 17	3/1/1996	1	U
PL2-JF01A	7 - 17	11/17/1995	2.2	
PL2-JF01A	7 - 17	9/27/1995	5.9	

South Yard Area Historic COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
PL2-JF01A	7 - 17	3/10/1995	4.1	
PL2-JF01AR	23.2 - 27	5/1/2006	15	U
PL2-JF01AR	23.2 - 27	2/6/2006	10	U
PL2-JF01AR	23.2 - 27	10/31/2005	25	U
PL2-JF01AR	23.2 - 27	10/31/2005	10	U
PL2-JF01AR	23.2 - 27	8/1/2005	75	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	4.6	
PL2-JF01AR	23.2 - 27	2/1/2005	50	UJ
PL2-JF01AR	23.2 - 27	11/1/2004	5.6	
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	9/27/2004	50	UJ
PL2-JF01AR	23.2 - 27	8/2/2004	50	U
PL2-JF01AR	23.2 - 27	5/10/2004	50	U
PL2-JF01AR	23.2 - 27	2/2/2004	20	U
PL2-JF01AR	23.2 - 27	12/19/2003	5	U
PL2-JF01AR	23.2 - 27	12/19/2003	20	UJ
PL2-JF01AR	23.2 - 27	12/8/2003	30	U
PL2-JF01AR	23.2 - 27	9/2/2003	25	U
PL2-JF01AR	23.2 - 27	6/16/2003	100	U
PL2-JF01AR	23.2 - 27	1/21/2002	29	
PL2-JF01AR	23.2 - 27	10/24/2001	1	
PL2-JF01AR	23.2 - 27	10/24/2001	1	
PL2-JF01AR	23.2 - 27	7/25/2001	4	
PL2-JF01AR	23.2 - 27	5/17/2001	5	UD
PL2-JF01B	40 - 50	5/1/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	10/31/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	5/2/2005	1	U
PL2-JF01B	40 - 50	2/1/2005	1	UJ
PL2-JF01B	40 - 50	11/1/2004	1	U
PL2-JF01B	40 - 50	9/27/2004	0.2	UJ
PL2-JF01B	40 - 50	8/2/2004	1	U
PL2-JF01B	40 - 50	5/10/2004	1	U
PL2-JF01B	40 - 50	2/2/2004	5	U
PL2-JF01B	40 - 50	12/19/2003	5	U
PL2-JF01B	40 - 50	12/8/2003	5	U
PL2-JF01B	40 - 50	9/2/2003	1	U
PL2-JF01B	40 - 50	6/16/2003	1	U
PL2-JF01B	40 - 50	1/21/2002	1	U

South Yard Area Historic COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
PL2-JF01B	40 - 50	10/24/2001	1	U
PL2-JF01B	40 - 50	7/25/2001	2	U
PL2-JF01B	40 - 50	4/26/2001	1	U
PL2-JF01B	40 - 50	11/21/1996	1	U
PL2-JF01B	40 - 50	8/26/1996	1	U
PL2-JF01B	40 - 50	5/23/1996	1	U
PL2-JF01B	40 - 50	3/1/1996	1	U
PL2-JF01B	40 - 50	11/17/1995	1	U
PL2-JF01B	40 - 50	9/27/1995	1	U
PL2-JF01B	40 - 50	3/31/1995	1	U
PL2-JF01C	74 - 78.5	5/1/2006	1	U
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	2	UJ
PL2-JF01C	74 - 78.5	8/1/2005	1	U
PL2-JF01C	74 - 78.5	5/2/2005	1	U
PL2-JF01C	74 - 78.5	2/1/2005	1	UJ
PL2-JF01C	74 - 78.5	11/1/2004	1	U
PL2-JF01C	74 - 78.5	9/27/2004	0.2	UJ
PL2-JF01C	74 - 78.5	5/10/2004	1	U
PL2-JF01C	74 - 78.5	12/19/2003	0.2	UJ
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	1	U
PL2-JF01C	74 - 78.5	1/21/2002	1	U
PL2-JF01C	74 - 78.5	10/24/2001	1	U
PL2-JF01C	74 - 78.5	7/25/2001	1	U
PL2-JF01C	74 - 78.5	5/17/2001	1	UJ
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	UJ
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	U
PL2-JF02A	5.5 - 23	5/10/2004	1	U
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	1	U
PL2-JF02A	5.5 - 23	10/24/2001	1	U
PL2-JF02A	5.5 - 23	7/25/2001	1	U
PL2-JF02A	5.5 - 23	4/26/2001	1	U
PL2-JF02A	5.5 - 23	11/21/1996	1	U

South Yard Area Historic COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
PL2-JF02A	5.5 - 23	11/21/1996	1	U
PL2-JF02A	5.5 - 23	8/26/1996	1	U
PL2-JF02A	5.5 - 23	5/23/1996	1	U
PL2-JF02A	5.5 - 23	3/1/1996	1	U
PL2-JF02A	5.5 - 23	11/17/1995	1	U
PL2-JF02A	5.5 - 23	9/27/1995	1.3	
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	5/10/2004	1	U
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	U
PL2-JF03A	6 - 23	11/21/1996	1	U
PL2-JF03A	6 - 23	8/26/1996	1	U
PL2-JF03A	6 - 23	5/23/1996	1	U
PL2-JF03A	6 - 23	3/1/1996	1	U
PL2-JF03A	6 - 23	11/17/1995	1	U
PL2-JF03A	6 - 23	9/28/1995	1	U

South Yard Area Historic COC Results

1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
GP-06601	13	9/12/1994	1	U
GP-06601	23	9/12/1994	1	U
GP-06601	45	9/12/1994	1	U
GP-06602	14	9/13/1994	1	U
GP-06602	24	9/13/1994	1	U
GP-06602	45	9/13/1994	1	U
GP-06603	14	9/12/1994	1	U
GP-06603	24	9/12/1994	1	U
GP-06603	45	9/12/1994	1	U
GP-06604	14	9/13/1994	5	U
GP-06604	24	9/13/1994	1	U
GP-06604	45	9/13/1994	1	U
GP-06604	24	9/13/1994	1	U
GP-06633	15	11/28/1994	1	U
GP-06633	25	11/28/1994	4	
GP-06633	45	11/28/1994	1	UJH
GP-06633	65	11/28/1994	1	UJH
GP-06633	25	11/28/1994	2.9	
GP-06634	15	11/22/1994	1	U
GP-06634	25	11/22/1994	1	U
GP-06634	45	11/22/1994	1	UJ
GP-06634	65	11/22/1994	1	U
GP-06635	15	11/22/1994	1	U
GP-06635	25	11/22/1994	1	UJ
GP-06635	45	11/22/1994	1	U
GP-06635	65	11/22/1994	1	U
GP-06636	15	11/21/1994	1	U
GP-06636	25	11/21/1994	1	U
GP-06636	45	11/21/1994	1	U
GP-06636	65	11/21/1994	1	U
GP-06637	14	3/15/1995	1	U
GP-06637	25	3/15/1995	1	U
GP-06637	45	3/15/1995	1	U
GP-06638	14	3/16/1995	1	U
GP-06638	25	3/16/1995	1	U
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06639	25	3/16/1995	1	U
GP-06639	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-06640	25	3/15/1995	1	U
GP-06640	45	3/15/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-08001	13	9/2/1994	1	U
GP-08002	13	9/8/1994	1	U

South Yard Area Historic COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
GP-08002	13	9/8/1994	1	U
GP-08003	12	8/25/1994	1	U
GP-08007	15	2/17/1995	1	U
GP-08008	17	7/26/1995	1.3	
GP-08008	25	7/26/1995	1	U
GP-08701	15	2/17/1995	2.7	
GP-08901	14	9/14/1994	1	U
GP-08901	24	9/14/1994	1	U
GP-08902	14	9/14/1994	1	U
GP-08902	24	9/14/1994	1	U
GP-08903	14	9/14/1994	1	U
GP-08903	24	9/14/1994	1	U
GP-08904	14	9/14/1994	1	U
GP-08904	24	9/14/1994	1	U
GP-08905	14	9/13/1994	1	U
GP-08905	24	9/13/1994	1	U
GP-08906	15	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08906	45	11/29/1994	1	U
GP-08906	65	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08907	63	11/29/1994	1	U
GP-08907	15	11/28/1994	1	U
GP-08907	25	11/28/1994	1	U
GP-08907	45	11/28/1994	1	U
GP-08908	14	3/17/1995	1	U
GP-08908	25	3/17/1995	1	U
GP-08908	45	3/17/1995	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
GP-09104	15	11/23/1994	1	U
GP-09104	25	11/23/1994	1	U
GP-09104	45	11/23/1994	1	U
GP-09105	15	11/23/1994	1	U
GP-09105	25	11/23/1994	1	U
GP-09105	45	11/23/1994	1	U
GP-09106	14	3/14/1995	1	U
GP-09106	25	3/14/1995	1	U
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	1	U
GP-09107	25	3/14/1995	1	U
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	1	U
GP-09108	25	3/14/1995	1	U
GP-09108	45	3/14/1995	1	U

South Yard Area Historic COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
GP-09109	14	3/15/1995	1	U
GP-09109	25	3/15/1995	1	U
GP-09109	45	3/15/1995	1	U
GP-09110	15	9/19/1995	1	U
GP-09110	25	9/19/1995	1	U
GP-09110	45	9/19/1995	1	U
GP-09111	15	9/20/1995	1	U
GP-09111	25	9/20/1995	1	U
GP-09111	45	9/20/1995	1	U
GP-09112	15	9/19/1995	1	U
GP-09112	25	9/19/1995	1	U
GP-09112	45	9/19/1995	1	U
GP-09113	15	9/19/1995	1	U
GP-09113	25	9/19/1995	1	U
GP-09113	45	9/19/1995	1	U
GP-09114	15	9/20/1995	1	U
GP-09114	25	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09115	15	9/19/1995	1	U
GP-09115	25	9/19/1995	1	U
GP-09115	45	9/19/1995	1	U
PL2-101A	13 - 21	3/24/1995	1	U
PL2-101A	13 - 21	7/15/1992	0.5	N
PL2-101A	13 - 21	7/15/1992	0.9	J
PL2-101A	13 - 21	5/4/1988	1	
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101C	71 - 81	7/15/1992	1	U
PL2-102A	8.5 - 18.5	3/24/1995	100	U
PL2-102A	8.5 - 18.5	7/17/1992	15	
PL2-102A	8.5 - 18.5	5/4/1988	64	
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	1	U
PL2-103A	4 - 20	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104A	7 - 27	5/4/1988	1	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	5/4/1988	1	U
PL2-105A	7.5 - 27.5	7/16/1992	1	U
PL2-105A	7.5 - 27.5	5/4/1988	1	U
PL2-105B	39 - 49	7/16/1992	1	U
PL2-105C	77 - 87	7/16/1992	1	U
PL2-106A	8 - 28	1/22/2001	1	U

South Yard Area Historic COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
PL2-106A	8 - 28	8/4/2000	1	U
PL2-106A	8 - 28	8/22/1996	1	U
PL2-106A	8 - 28	3/4/1996	1	U
PL2-106A	8 - 28	3/4/1996	1	U
PL2-106A	8 - 28	11/21/1995	1.3	
PL2-106A	8 - 28	8/17/1995	1	U
PL2-106A	8 - 28	3/24/1995	5	U
PL2-106A	8 - 28	7/15/1992	1	U
PL2-106A	8 - 28	5/4/1988	3	
PL2-106B	39 - 49	3/28/1995	1	U
PL2-106B	39 - 49	7/15/1992	1	U
PL2-106C	82.5 - 92.5	7/15/1992	1	U
PL2-107A	10 - 20	7/17/1992	0.5	N
PL2-109A	8 - 18	7/16/1992	8.9	
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	1	U
PL2-110A	9 - 19	8/27/1996	1	U
PL2-110A	9 - 19	2/29/1996	1	U
PL2-110A	9 - 19	11/14/1995	1.1	
PL2-110A	9 - 19	8/16/1995	1	U
PL2-110A	9 - 19	7/15/1992	1.2	
PL2-110A	9 - 19	7/15/1992	1.1	
PL2-110B	47 - 57	7/15/1992	1.2	U
PL2-110C	82 - 92	7/15/1992	1	U
PL2-111A	8 - 18	12/22/1993	1	U
PL2-112A	8.5 - 18.5	8/15/2002	2.2	
PL2-112A	8.5 - 18.5	3/31/1995	18	
PL2-112A	8.5 - 18.5	8/2/1989	5.7	
PL2-112A	8.5 - 18.5	1/18/1989	2.7	
PL2-112B	40 - 50	8/15/2002	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-113A	8 - 18	8/20/2002	1.9	
PL2-113A	8 - 18	8/2/1989	13	U
PL2-113A	8 - 18	1/18/1989	26	U
PL2-114A	8.5 - 18.5	8/2/1989	13	U
PL2-114A	8.5 - 18.5	1/18/1989	1.3	U
PL2-115A	7.5 - 17.7	8/20/2002	1	U
PL2-115A	7.5 - 17.7	8/2/1989	1.3	U
PL2-116A	7.5 - 17.8	8/20/2002	1	U
PL2-116A	7.5 - 17.8	8/2/1989	1.3	U
PL2-117A	7.9 - 17.9	8/16/2002	1	U
PL2-117A	7.9 - 17.9	8/2/1989	1.7	
PL2-117A	7.9 - 17.9	1/18/1989	0.3	N
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	8/23/1996	1	U

South Yard Area Historic COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
PL2-119A	8 - 18	3/4/1996	1	U
PL2-119A	8 - 18	11/14/1995	1	U
PL2-119A	8 - 18	8/4/1995	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	1/23/2001	1	U
PL2-151A	6 - 16	8/3/2000	1	U
PL2-151B	45 - 50	1/23/2001	1	U
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	1	U
PL2-151C	75 - 80	8/3/2000	1	U
PL2-152A	6 - 16	1/24/2001	1	U
PL2-152A	6 - 16	8/3/2000	1	U
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	1	U
PL2-152C	80 - 85	8/3/2000	1	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	1	U
PL2-154A	6 - 16	1/25/2001	1	U
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	1	U
PL2-155A	6 - 16	1/22/2001	1	U
PL2-155A	6 - 16	8/4/2000	1	U
PL2-155B	45 - 50	1/23/2001	1	U
PL2-155B	45 - 50	8/4/2000	1	U
PL2-155C	80 - 85	1/22/2001	1	U
PL2-155C	80 - 85	8/4/2000	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	8/4/2000	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-302A	7 - 22	7/7/1992	1	U
PL2-303A	8 - 13	7/7/1992	1	U
PL2-304A		3/24/1995	1	U
PL2-304A		7/7/1992	1	U
PL2-305A		7/7/1992	1	U
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-JF01A	7 - 17	11/21/1996	1	U
PL2-JF01A	7 - 17	8/26/1996	1	U
PL2-JF01A	7 - 17	5/23/1996	1	U
PL2-JF01A	7 - 17	3/1/1996	1	U
PL2-JF01A	7 - 17	11/17/1995	1	U
PL2-JF01A	7 - 17	9/27/1995	1	U

South Yard Area Historic COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
PL2-JF01A	7 - 17	3/10/1995	1	U
PL2-JF01AR	23.2 - 27	5/1/2006	15	U
PL2-JF01AR	23.2 - 27	2/6/2006	10	U
PL2-JF01AR	23.2 - 27	10/31/2005	25	U
PL2-JF01AR	23.2 - 27	10/31/2005	10	U
PL2-JF01AR	23.2 - 27	8/1/2005	75	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	1	U
PL2-JF01AR	23.2 - 27	2/1/2005	50	UJ
PL2-JF01AR	23.2 - 27	11/1/2004	1	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	9/27/2004	50	UJ
PL2-JF01AR	23.2 - 27	8/2/2004	50	U
PL2-JF01AR	23.2 - 27	5/10/2004	50	U
PL2-JF01AR	23.2 - 27	2/2/2004	20	U
PL2-JF01AR	23.2 - 27	12/19/2003	5	U
PL2-JF01AR	23.2 - 27	12/19/2003	20	UJ
PL2-JF01AR	23.2 - 27	12/8/2003	30	U
PL2-JF01AR	23.2 - 27	9/2/2003	25	U
PL2-JF01AR	23.2 - 27	6/16/2003	100	U
PL2-JF01AR	23.2 - 27	1/21/2002	10	
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	7/25/2001	1.1	
PL2-JF01AR	23.2 - 27	5/17/2001	5	UD
PL2-JF01B	40 - 50	5/1/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	10/31/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	5/2/2005	1	U
PL2-JF01B	40 - 50	2/1/2005	1	UJ
PL2-JF01B	40 - 50	11/1/2004	1	U
PL2-JF01B	40 - 50	9/27/2004	0.2	UJ
PL2-JF01B	40 - 50	8/2/2004	1	U
PL2-JF01B	40 - 50	5/10/2004	1	U
PL2-JF01B	40 - 50	2/2/2004	5	U
PL2-JF01B	40 - 50	12/19/2003	5	U
PL2-JF01B	40 - 50	12/8/2003	5	U
PL2-JF01B	40 - 50	9/2/2003	1	U
PL2-JF01B	40 - 50	6/16/2003	1	U
PL2-JF01B	40 - 50	1/21/2002	1	U

South Yard Area Historic COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
PL2-JF01B	40 - 50	10/24/2001	1	U
PL2-JF01B	40 - 50	7/25/2001	2	U
PL2-JF01B	40 - 50	4/26/2001	1	U
PL2-JF01B	40 - 50	11/21/1996	1	U
PL2-JF01B	40 - 50	8/26/1996	1	U
PL2-JF01B	40 - 50	5/23/1996	1	U
PL2-JF01B	40 - 50	3/1/1996	1	U
PL2-JF01B	40 - 50	11/17/1995	1	U
PL2-JF01B	40 - 50	9/27/1995	1	U
PL2-JF01B	40 - 50	3/31/1995	1	U
PL2-JF01C	74 - 78.5	5/1/2006	1	U
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	2	UJ
PL2-JF01C	74 - 78.5	8/1/2005	1	U
PL2-JF01C	74 - 78.5	5/2/2005	1	U
PL2-JF01C	74 - 78.5	2/1/2005	1	UJ
PL2-JF01C	74 - 78.5	11/1/2004	1	U
PL2-JF01C	74 - 78.5	9/27/2004	0.2	UJ
PL2-JF01C	74 - 78.5	5/10/2004	1	U
PL2-JF01C	74 - 78.5	12/19/2003	0.2	UJ
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	1	U
PL2-JF01C	74 - 78.5	1/21/2002	1	U
PL2-JF01C	74 - 78.5	10/24/2001	1	U
PL2-JF01C	74 - 78.5	7/25/2001	1	U
PL2-JF01C	74 - 78.5	5/17/2001	1	UJ
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	UJ
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	U
PL2-JF02A	5.5 - 23	5/10/2004	1	U
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	1	U
PL2-JF02A	5.5 - 23	10/24/2001	1	U
PL2-JF02A	5.5 - 23	7/25/2001	1	U
PL2-JF02A	5.5 - 23	4/26/2001	1	U
PL2-JF02A	5.5 - 23	11/21/1996	1	U

South Yard Area Historic COC Results

1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
PL2-JF02A	5.5 - 23	11/21/1996	1	U
PL2-JF02A	5.5 - 23	8/26/1996	1	U
PL2-JF02A	5.5 - 23	5/23/1996	1	U
PL2-JF02A	5.5 - 23	3/1/1996	1	U
PL2-JF02A	5.5 - 23	11/17/1995	1	U
PL2-JF02A	5.5 - 23	9/27/1995	1	U
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	5/10/2004	1	U
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	U
PL2-JF03A	6 - 23	11/21/1996	1	U
PL2-JF03A	6 - 23	8/26/1996	1	U
PL2-JF03A	6 - 23	5/23/1996	1	U
PL2-JF03A	6 - 23	3/1/1996	1	U
PL2-JF03A	6 - 23	11/17/1995	1	U
PL2-JF03A	6 - 23	9/28/1995	1	U

South Yard Area Historic COC Results

cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
GP-06601	13	9/12/1994	2.5	
GP-06601	23	9/12/1994	1	U
GP-06601	45	9/12/1994	1	U
GP-06602	14	9/13/1994	1	U
GP-06602	24	9/13/1994	1	U
GP-06602	45	9/13/1994	1	U
GP-06603	14	9/12/1994	1	U
GP-06603	24	9/12/1994	5.6	
GP-06603	45	9/12/1994	1	U
GP-06604	14	9/13/1994	5	U
GP-06604	24	9/13/1994	1	U
GP-06604	45	9/13/1994	1	U
GP-06604	24	9/13/1994	1	U
GP-06633	15	11/28/1994	24	
GP-06633	25	11/28/1994	7600	JD
GP-06633	45	11/28/1994	2.2	JH
GP-06633	65	11/28/1994	1	UJH
GP-06633	25	11/28/1994	5200	JD
GP-06634	15	11/22/1994	33	
GP-06634	25	11/22/1994	13	
GP-06634	45	11/22/1994	1	UJ
GP-06634	65	11/22/1994	1	U
GP-06635	15	11/22/1994	1	U
GP-06635	25	11/22/1994	1	UJ
GP-06635	45	11/22/1994	1	U
GP-06635	65	11/22/1994	1	U
GP-06636	15	11/21/1994	1	U
GP-06636	25	11/21/1994	54	
GP-06636	45	11/21/1994	1	U
GP-06636	65	11/21/1994	1	U
GP-06637	14	3/15/1995	3.6	
GP-06637	25	3/15/1995	1	U
GP-06637	45	3/15/1995	1	U
GP-06638	14	3/16/1995	1	U
GP-06638	25	3/16/1995	1.3	
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	3.1	
GP-06639	25	3/16/1995	2.7	
GP-06639	45	3/16/1995	1	U
GP-06639	14	3/16/1995	4	
GP-06640	14	3/15/1995	1	U
GP-06640	25	3/15/1995	1	U
GP-06640	45	3/15/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-08001	13	9/2/1994	1	U
GP-08002	13	9/8/1994	1.2	

South Yard Area Historic COC Results

cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
GP-08002	13	9/8/1994	1.1	
GP-08003	12	8/25/1994	1.1	
GP-08007	15	2/17/1995	1	U
GP-08008	17	7/26/1995	4.3	
GP-08008	25	7/26/1995	5.8	
GP-08701	15	2/17/1995	13	
GP-08901	14	9/14/1994	12	
GP-08901	24	9/14/1994	1	U
GP-08902	14	9/14/1994	1	U
GP-08902	24	9/14/1994	57	
GP-08903	14	9/14/1994	53	
GP-08903	24	9/14/1994	18	
GP-08904	14	9/14/1994	1	U
GP-08904	24	9/14/1994	17	
GP-08905	14	9/13/1994	1.8	
GP-08905	24	9/13/1994	8.5	
GP-08906	15	11/29/1994	1.1	
GP-08906	25	11/29/1994	40	
GP-08906	45	11/29/1994	1	U
GP-08906	65	11/29/1994	1	U
GP-08906	25	11/29/1994	38	
GP-08907	63	11/29/1994	1	U
GP-08907	15	11/28/1994	1	U
GP-08907	25	11/28/1994	60	
GP-08907	45	11/28/1994	1	U
GP-08908	14	3/17/1995	1	U
GP-08908	25	3/17/1995	1	U
GP-08908	45	3/17/1995	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
GP-09104	15	11/23/1994	1	U
GP-09104	25	11/23/1994	1	U
GP-09104	45	11/23/1994	1	U
GP-09105	15	11/23/1994	1	U
GP-09105	25	11/23/1994	1	U
GP-09105	45	11/23/1994	1	U
GP-09106	14	3/14/1995	1	U
GP-09106	25	3/14/1995	58	
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	1	U
GP-09107	25	3/14/1995	1	U
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	1	U
GP-09108	25	3/14/1995	1	U
GP-09108	45	3/14/1995	1	U

South Yard Area Historic COC Results
cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
GP-09109	14	3/15/1995	1	U
GP-09109	25	3/15/1995	1	U
GP-09109	45	3/15/1995	1	U
GP-09110	15	9/19/1995	1	U
GP-09110	25	9/19/1995	1	U
GP-09110	45	9/19/1995	1	U
GP-09111	15	9/20/1995	1	U
GP-09111	25	9/20/1995	1	U
GP-09111	45	9/20/1995	1	U
GP-09112	15	9/19/1995	1	U
GP-09112	25	9/19/1995	1	U
GP-09112	45	9/19/1995	1	U
GP-09113	15	9/19/1995	1	U
GP-09113	25	9/19/1995	1	U
GP-09113	45	9/19/1995	1	U
GP-09114	15	9/20/1995	1	U
GP-09114	25	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09115	15	9/19/1995	1	U
GP-09115	25	9/19/1995	1	U
GP-09115	45	9/19/1995	1	U
PL2-101A	13 - 21	3/24/1995	13	
PL2-101A	13 - 21	7/15/1992	16	
PL2-101A	13 - 21	7/15/1992	23	
PL2-101A	13 - 21	5/4/1988	13	
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101C	71 - 81	7/15/1992	1	U
PL2-102A	8.5 - 18.5	3/24/1995	8400	
PL2-102A	8.5 - 18.5	7/17/1992	2400	E
PL2-102A	8.5 - 18.5	5/4/1988	110000	
PL2-102B	47 - 57	7/17/1992	1.6	
PL2-102C	77 - 87	7/17/1992	1	U
PL2-103A	4 - 20	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104A	7 - 27	5/4/1988	1	U
PL2-104B	40 - 50	7/16/1992	2	UJ
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	2	UJ
PL2-104C	76 - 96	5/4/1988	1	U
PL2-105A	7.5 - 27.5	7/16/1992	4.2	
PL2-105A	7.5 - 27.5	5/4/1988	8	
PL2-105B	39 - 49	7/16/1992	1	U
PL2-105C	77 - 87	7/16/1992	1	U
PL2-106A	8 - 28	1/22/2001	1.5	

South Yard Area Historic COC Results

cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
PL2-106A	8 - 28	8/4/2000	1.5	
PL2-106A	8 - 28	8/22/1996	28	
PL2-106A	8 - 28	3/4/1996	48	
PL2-106A	8 - 28	3/4/1996	52	
PL2-106A	8 - 28	11/21/1995	150	
PL2-106A	8 - 28	8/17/1995	32	
PL2-106A	8 - 28	3/24/1995	80	
PL2-106A	8 - 28	7/15/1992	20	
PL2-106A	8 - 28	5/4/1988	110	
PL2-106B	39 - 49	3/28/1995	25	
PL2-106B	39 - 49	7/15/1992	1	U
PL2-106C	82.5 - 92.5	7/15/1992	1	U
PL2-107A	10 - 20	7/17/1992	130	
PL2-109A	8 - 18	7/16/1992	370	
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	1	U
PL2-110A	9 - 19	8/27/1996	5.8	
PL2-110A	9 - 19	2/29/1996	5.4	
PL2-110A	9 - 19	11/14/1995	15	
PL2-110A	9 - 19	8/16/1995	10	
PL2-110A	9 - 19	7/15/1992	23	
PL2-110A	9 - 19	7/15/1992	22	
PL2-110B	47 - 57	7/15/1992	1	U
PL2-110C	82 - 92	7/15/1992	2.9	
PL2-111A	8 - 18	12/22/1993	70	
PL2-112A	8.5 - 18.5	8/15/2002	4.8	
PL2-112A	8.5 - 18.5	3/31/1995	7.7	
PL2-112B	40 - 50	8/15/2002	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-113A	8 - 18	8/20/2002	5.9	
PL2-115A	7.5 - 17.7	8/20/2002	94	
PL2-116A	7.5 - 17.8	8/20/2002	1.4	
PL2-117A	7.9 - 17.9	8/16/2002	8.1	
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	8/23/1996	1.4	
PL2-119A	8 - 18	3/4/1996	1.5	
PL2-119A	8 - 18	11/14/1995	2.1	
PL2-119A	8 - 18	8/4/1995	1.8	
PL2-119A	8 - 18	9/26/1994	2.8	
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	1/23/2001	2.1	
PL2-151A	6 - 16	8/3/2000	4.1	
PL2-151B	45 - 50	1/23/2001	1	U
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	1	U

South Yard Area Historic COC Results

cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
PL2-151C	75 - 80	8/3/2000	1	U
PL2-152A	6 - 16	1/24/2001	2	
PL2-152A	6 - 16	8/3/2000	4.6	
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	1	U
PL2-152C	80 - 85	8/3/2000	1	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	1	U
PL2-154A	6 - 16	1/25/2001	1	U
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	1	U
PL2-155A	6 - 16	1/22/2001	6.6	
PL2-155A	6 - 16	8/4/2000	2.1	
PL2-155B	45 - 50	1/23/2001	1	U
PL2-155B	45 - 50	8/4/2000	1	U
PL2-155C	80 - 85	1/22/2001	1	U
PL2-155C	80 - 85	8/4/2000	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	8/4/2000	2.9	
PL2-301A	8 - 23	7/7/1992	1	
PL2-301A	8 - 23	7/7/1992	0.8	J
PL2-302A	7 - 22	7/7/1992	1	U
PL2-303A	8 - 13	7/7/1992	1	U
PL2-304A		3/24/1995	1	U
PL2-304A		7/7/1992	1.5	
PL2-305A		7/7/1992	1.8	
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-JF01A	7 - 17	11/21/1996	1	U
PL2-JF01A	7 - 17	8/26/1996	1	U
PL2-JF01A	7 - 17	5/23/1996	1	U
PL2-JF01A	7 - 17	3/1/1996	3.1	
PL2-JF01A	7 - 17	11/17/1995	2.1	
PL2-JF01A	7 - 17	9/27/1995	1	U
PL2-JF01A	7 - 17	3/10/1995	1	U
PL2-JF01AR	23.2 - 27	5/1/2006	910	
PL2-JF01AR	23.2 - 27	2/6/2006	28	
PL2-JF01AR	23.2 - 27	10/31/2005	25	U
PL2-JF01AR	23.2 - 27	10/31/2005	10	U
PL2-JF01AR	23.2 - 27	8/1/2005	520	
PL2-JF01AR	23.2 - 27	5/2/2005	120	
PL2-JF01AR	23.2 - 27	5/2/2005	100	
PL2-JF01AR	23.2 - 27	5/2/2005	100	
PL2-JF01AR	23.2 - 27	2/1/2005	280	J

South Yard Area Historic COC Results

cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
PL2-JF01AR	23.2 - 27	11/1/2004	280	E
PL2-JF01AR	23.2 - 27	11/1/2004	280	
PL2-JF01AR	23.2 - 27	11/1/2004	260	
PL2-JF01AR	23.2 - 27	9/27/2004	820	J
PL2-JF01AR	23.2 - 27	8/2/2004	2200	
PL2-JF01AR	23.2 - 27	5/10/2004	3600	
PL2-JF01AR	23.2 - 27	2/2/2004	4000	
PL2-JF01AR	23.2 - 27	12/19/2003	470	
PL2-JF01AR	23.2 - 27	12/19/2003	510	J
PL2-JF01AR	23.2 - 27	12/8/2003	300	
PL2-JF01AR	23.2 - 27	9/2/2003	260	
PL2-JF01AR	23.2 - 27	6/16/2003	3000	
PL2-JF01AR	23.2 - 27	1/21/2002	26000	D
PL2-JF01AR	23.2 - 27	10/24/2001	240	D
PL2-JF01AR	23.2 - 27	10/24/2001	240	D
PL2-JF01AR	23.2 - 27	7/25/2001	3100	D
PL2-JF01AR	23.2 - 27	5/17/2001	850	D
PL2-JF01B	40 - 50	5/1/2006	3.7	
PL2-JF01B	40 - 50	2/6/2006	9.2	
PL2-JF01B	40 - 50	2/6/2006	7.8	
PL2-JF01B	40 - 50	2/6/2006	7.8	
PL2-JF01B	40 - 50	10/31/2005	6.9	
PL2-JF01B	40 - 50	8/1/2005	7.1	
PL2-JF01B	40 - 50	8/1/2005	7.1	
PL2-JF01B	40 - 50	5/2/2005	16	
PL2-JF01B	40 - 50	2/1/2005	41	J
PL2-JF01B	40 - 50	11/1/2004	81	
PL2-JF01B	40 - 50	9/27/2004	2.7	J
PL2-JF01B	40 - 50	8/2/2004	160	
PL2-JF01B	40 - 50	5/10/2004	130	
PL2-JF01B	40 - 50	2/2/2004	220	
PL2-JF01B	40 - 50	12/19/2003	380	
PL2-JF01B	40 - 50	12/8/2003	460	
PL2-JF01B	40 - 50	9/2/2003	540	
PL2-JF01B	40 - 50	6/16/2003	38	
PL2-JF01B	40 - 50	1/21/2002	100	
PL2-JF01B	40 - 50	10/24/2001	150	
PL2-JF01B	40 - 50	7/25/2001	170	
PL2-JF01B	40 - 50	4/26/2001	68	
PL2-JF01B	40 - 50	11/21/1996	1	U
PL2-JF01B	40 - 50	8/26/1996	1	U
PL2-JF01B	40 - 50	5/23/1996	1	U
PL2-JF01B	40 - 50	3/1/1996	1	U
PL2-JF01B	40 - 50	11/17/1995	1	U
PL2-JF01B	40 - 50	9/27/1995	1	U
PL2-JF01B	40 - 50	3/31/1995	1	U

South Yard Area Historic COC Results

cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
PL2-JF01C	74 - 78.5	5/1/2006	1	U
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	2	UJ
PL2-JF01C	74 - 78.5	8/1/2005	1	U
PL2-JF01C	74 - 78.5	5/2/2005	1	U
PL2-JF01C	74 - 78.5	2/1/2005	1	UJ
PL2-JF01C	74 - 78.5	11/1/2004	1	U
PL2-JF01C	74 - 78.5	9/27/2004	1.7	J
PL2-JF01C	74 - 78.5	5/10/2004	1	U
PL2-JF01C	74 - 78.5	12/19/2003	0.2	UJ
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	1	U
PL2-JF01C	74 - 78.5	1/21/2002	1	U
PL2-JF01C	74 - 78.5	10/24/2001	1	U
PL2-JF01C	74 - 78.5	7/25/2001	1	U
PL2-JF01C	74 - 78.5	5/17/2001	1	UJ
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	UJ
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	U
PL2-JF02A	5.5 - 23	5/10/2004	1	U
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	1	U
PL2-JF02A	5.5 - 23	10/24/2001	1	U
PL2-JF02A	5.5 - 23	7/25/2001	1	U
PL2-JF02A	5.5 - 23	4/26/2001	1	U
PL2-JF02A	5.5 - 23	11/21/1996	1	U
PL2-JF02A	5.5 - 23	11/21/1996	1	U
PL2-JF02A	5.5 - 23	8/26/1996	1	U
PL2-JF02A	5.5 - 23	5/23/1996	1	U
PL2-JF02A	5.5 - 23	3/1/1996	1	U
PL2-JF02A	5.5 - 23	11/17/1995	1	U
PL2-JF02A	5.5 - 23	9/27/1995	1	U
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	5/10/2004	1	U

South Yard Area Historic COC Results
cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	U
PL2-JF03A	6 - 23	11/21/1996	1	U
PL2-JF03A	6 - 23	8/26/1996	1	U
PL2-JF03A	6 - 23	5/23/1996	1	U
PL2-JF03A	6 - 23	3/1/1996	1	U
PL2-JF03A	6 - 23	11/17/1995	1	U
PL2-JF03A	6 - 23	9/28/1995	1	U

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
GP-06601	13	9/12/1994	1	U
GP-06601	23	9/12/1994	1	U
GP-06601	45	9/12/1994	1	U
GP-06602	14	9/13/1994	1	U
GP-06602	24	9/13/1994	1	U
GP-06602	45	9/13/1994	1	U
GP-06603	14	9/12/1994	1	U
GP-06603	24	9/12/1994	1	U
GP-06603	45	9/12/1994	1	U
GP-06604	14	9/13/1994	5	U
GP-06604	24	9/13/1994	1	U
GP-06604	45	9/13/1994	1	U
GP-06604	24	9/13/1994	1	U
GP-06633	15	11/28/1994	1	U
GP-06633	25	11/28/1994	1	U
GP-06633	45	11/28/1994	1	UJH
GP-06633	65	11/28/1994	1	UJH
GP-06633	25	11/28/1994	1	U
GP-06634	15	11/22/1994	1	U
GP-06634	25	11/22/1994	1	U
GP-06634	45	11/22/1994	1	UJ
GP-06634	65	11/22/1994	1	U
GP-06635	15	11/22/1994	1	U
GP-06635	25	11/22/1994	1	UJ
GP-06635	45	11/22/1994	1	U
GP-06635	65	11/22/1994	1	U
GP-06636	15	11/21/1994	1	U
GP-06636	25	11/21/1994	1	U
GP-06636	45	11/21/1994	1	U
GP-06636	65	11/21/1994	1	U
GP-06637	14	3/15/1995	2.2	
GP-06637	25	3/15/1995	1	U
GP-06637	45	3/15/1995	1	U
GP-06638	14	3/16/1995	1	U
GP-06638	25	3/16/1995	1	U
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06639	25	3/16/1995	1	U
GP-06639	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06640	14	3/15/1995	1.5	
GP-06640	25	3/15/1995	1	U
GP-06640	45	3/15/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-08001	13	9/2/1994	1	U
GP-08002	13	9/8/1994	1	U

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
GP-08002	13	9/8/1994	1	U
GP-08003	12	8/25/1994	1	U
GP-08007	15	2/17/1995	1	U
GP-08008	17	7/26/1995	1	U
GP-08008	25	7/26/1995	1	U
GP-08701	15	2/17/1995	1	U
GP-08901	14	9/14/1994	1	U
GP-08901	24	9/14/1994	1	U
GP-08902	14	9/14/1994	1	U
GP-08902	24	9/14/1994	1	U
GP-08903	14	9/14/1994	1	U
GP-08903	24	9/14/1994	1	U
GP-08904	14	9/14/1994	1	U
GP-08904	24	9/14/1994	1	U
GP-08905	14	9/13/1994	6.8	
GP-08905	24	9/13/1994	1	U
GP-08906	15	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08906	45	11/29/1994	1	U
GP-08906	65	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08907	63	11/29/1994	1	U
GP-08907	15	11/28/1994	1	U
GP-08907	25	11/28/1994	1	U
GP-08907	45	11/28/1994	1	U
GP-08908	14	3/17/1995	1	U
GP-08908	25	3/17/1995	1	U
GP-08908	45	3/17/1995	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
GP-09104	15	11/23/1994	1	U
GP-09104	25	11/23/1994	1	U
GP-09104	45	11/23/1994	1	U
GP-09105	15	11/23/1994	1	U
GP-09105	25	11/23/1994	1	U
GP-09105	45	11/23/1994	1	U
GP-09106	14	3/14/1995	1	U
GP-09106	25	3/14/1995	1	U
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	1	U
GP-09107	25	3/14/1995	1	U
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	1	U
GP-09108	25	3/14/1995	1	U
GP-09108	45	3/14/1995	1	U

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
GP-09109	14	3/15/1995	1	U
GP-09109	25	3/15/1995	1	U
GP-09109	45	3/15/1995	1	U
GP-09110	15	9/19/1995	1	U
GP-09110	25	9/19/1995	1	U
GP-09110	45	9/19/1995	1	U
GP-09111	15	9/20/1995	1	U
GP-09111	25	9/20/1995	1	U
GP-09111	45	9/20/1995	1	U
GP-09112	15	9/19/1995	1	U
GP-09112	25	9/19/1995	1	U
GP-09112	45	9/19/1995	1	U
GP-09113	15	9/19/1995	1	U
GP-09113	25	9/19/1995	1	U
GP-09113	45	9/19/1995	1	U
GP-09114	15	9/20/1995	1	U
GP-09114	25	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09115	15	9/19/1995	1	U
GP-09115	25	9/19/1995	1	U
GP-09115	45	9/19/1995	1	U
PL2-101A	13 - 21	3/24/1995	1	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-101A	13 - 21	5/4/1988	1	U
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101C	71 - 81	7/15/1992	1	U
PL2-102A	8.5 - 18.5	3/24/1995	100	U
PL2-102A	8.5 - 18.5	7/17/1992	1	U
PL2-102A	8.5 - 18.5	5/4/1988	6	
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	1	U
PL2-103A	4 - 20	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104A	7 - 27	5/4/1988	1	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	5/4/1988	1	U
PL2-105A	7.5 - 27.5	7/16/1992	1	U
PL2-105A	7.5 - 27.5	5/4/1988	3	
PL2-105B	39 - 49	7/16/1992	1	U
PL2-105C	77 - 87	7/16/1992	1	U
PL2-106A	8 - 28	1/22/2001	1	U

South Yard Area Historic COC Results
Tetrachloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
PL2-106A	8 - 28	8/4/2000	1	U
PL2-106A	8 - 28	8/22/1996	1	U
PL2-106A	8 - 28	3/4/1996	2.2	
PL2-106A	8 - 28	3/4/1996	2.4	
PL2-106A	8 - 28	11/21/1995	1.8	
PL2-106A	8 - 28	8/17/1995	1	U
PL2-106A	8 - 28	3/24/1995	5	U
PL2-106A	8 - 28	7/15/1992	1	U
PL2-106A	8 - 28	5/4/1988	1	U
PL2-106B	39 - 49	3/28/1995	1	U
PL2-106B	39 - 49	7/15/1992	1	U
PL2-106C	82.5 - 92.5	7/15/1992	1	U
PL2-107A	10 - 20	7/17/1992	1	U
PL2-109A	8 - 18	7/16/1992	36	
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	1	U
PL2-110A	9 - 19	8/27/1996	1	U
PL2-110A	9 - 19	2/29/1996	1	U
PL2-110A	9 - 19	11/14/1995	1	U
PL2-110A	9 - 19	8/16/1995	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110B	47 - 57	7/15/1992	1	U
PL2-110C	82 - 92	7/15/1992	1	U
PL2-111A	8 - 18	12/22/1993	1	U
PL2-112A	8.5 - 18.5	8/15/2002	2.1	
PL2-112A	8.5 - 18.5	3/31/1995	5.1	
PL2-112A	8.5 - 18.5	8/2/1989	2.6	
PL2-112A	8.5 - 18.5	1/18/1989	2.9	
PL2-112B	40 - 50	8/15/2002	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-113A	8 - 18	8/20/2002	1.1	
PL2-113A	8 - 18	8/2/1989	6	U
PL2-113A	8 - 18	1/18/1989	12	U
PL2-114A	8.5 - 18.5	8/2/1989	6	U
PL2-114A	8.5 - 18.5	1/18/1989	0.8	
PL2-115A	7.5 - 17.7	8/20/2002	1	U
PL2-115A	7.5 - 17.7	8/2/1989	0.6	U
PL2-116A	7.5 - 17.8	8/20/2002	1	U
PL2-116A	7.5 - 17.8	8/2/1989	0.6	U
PL2-117A	7.9 - 17.9	8/16/2002	1	U
PL2-117A	7.9 - 17.9	8/2/1989	0.8	
PL2-117A	7.9 - 17.9	1/18/1989	0.5	J
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	8/23/1996	1	U

South Yard Area Historic COC Results
Tetrachloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
PL2-119A	8 - 18	3/4/1996	1	U
PL2-119A	8 - 18	11/14/1995	1	U
PL2-119A	8 - 18	8/4/1995	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	1/23/2001	1	U
PL2-151A	6 - 16	8/3/2000	1	U
PL2-151B	45 - 50	1/23/2001	1	U
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	1	U
PL2-151C	75 - 80	8/3/2000	1	U
PL2-152A	6 - 16	1/24/2001	1	U
PL2-152A	6 - 16	8/3/2000	1	U
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	1	U
PL2-152C	80 - 85	8/3/2000	1	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	1	U
PL2-154A	6 - 16	1/25/2001	1	U
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	1	U
PL2-155A	6 - 16	1/22/2001	1	U
PL2-155A	6 - 16	8/4/2000	1	U
PL2-155B	45 - 50	1/23/2001	1	U
PL2-155B	45 - 50	8/4/2000	1	U
PL2-155C	80 - 85	1/22/2001	1	U
PL2-155C	80 - 85	8/4/2000	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	8/4/2000	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-302A	7 - 22	7/7/1992	1	U
PL2-303A	8 - 13	7/7/1992	1	U
PL2-304A		3/24/1995	1	U
PL2-304A		7/7/1992	1	U
PL2-305A		7/7/1992	1	U
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-JF01A	7 - 17	11/21/1996	1	U
PL2-JF01A	7 - 17	8/26/1996	1	U
PL2-JF01A	7 - 17	5/23/1996	1	U
PL2-JF01A	7 - 17	3/1/1996	1	U
PL2-JF01A	7 - 17	11/17/1995	1	U
PL2-JF01A	7 - 17	9/27/1995	1	U

South Yard Area Historic COC Results
Tetrachloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
PL2-JF01A	7 - 17	3/10/1995	1	U
PL2-JF01AR	23.2 - 27	5/1/2006	15	U
PL2-JF01AR	23.2 - 27	2/6/2006	10	U
PL2-JF01AR	23.2 - 27	10/31/2005	25	U
PL2-JF01AR	23.2 - 27	10/31/2005	10	U
PL2-JF01AR	23.2 - 27	8/1/2005	75	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	1	U
PL2-JF01AR	23.2 - 27	2/1/2005	50	UJ
PL2-JF01AR	23.2 - 27	11/1/2004	1	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	9/27/2004	50	UJ
PL2-JF01AR	23.2 - 27	8/2/2004	50	U
PL2-JF01AR	23.2 - 27	5/10/2004	50	U
PL2-JF01AR	23.2 - 27	2/2/2004	20	U
PL2-JF01AR	23.2 - 27	12/19/2003	5	U
PL2-JF01AR	23.2 - 27	12/19/2003	20	UJ
PL2-JF01AR	23.2 - 27	12/8/2003	30	U
PL2-JF01AR	23.2 - 27	9/2/2003	25	U
PL2-JF01AR	23.2 - 27	6/16/2003	100	U
PL2-JF01AR	23.2 - 27	1/21/2002	5	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	7/25/2001	1	U
PL2-JF01AR	23.2 - 27	5/17/2001	5	UD
PL2-JF01B	40 - 50	5/1/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	10/31/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	5/2/2005	1	U
PL2-JF01B	40 - 50	2/1/2005	1	UJ
PL2-JF01B	40 - 50	11/1/2004	1	U
PL2-JF01B	40 - 50	9/27/2004	0.2	UJ
PL2-JF01B	40 - 50	8/2/2004	1	U
PL2-JF01B	40 - 50	5/10/2004	1	U
PL2-JF01B	40 - 50	2/2/2004	5	U
PL2-JF01B	40 - 50	12/19/2003	5	U
PL2-JF01B	40 - 50	12/8/2003	5	U
PL2-JF01B	40 - 50	9/2/2003	1	U
PL2-JF01B	40 - 50	6/16/2003	1	U
PL2-JF01B	40 - 50	1/21/2002	1	U

South Yard Area Historic COC Results
Tetrachloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
PL2-JF01B	40 - 50	10/24/2001	1	U
PL2-JF01B	40 - 50	7/25/2001	2	U
PL2-JF01B	40 - 50	4/26/2001	1	U
PL2-JF01B	40 - 50	11/21/1996	1	U
PL2-JF01B	40 - 50	8/26/1996	1	U
PL2-JF01B	40 - 50	5/23/1996	1	U
PL2-JF01B	40 - 50	3/1/1996	1	U
PL2-JF01B	40 - 50	11/17/1995	1	U
PL2-JF01B	40 - 50	9/27/1995	1	U
PL2-JF01B	40 - 50	3/31/1995	1	U
PL2-JF01C	74 - 78.5	5/1/2006	1	U
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	2	UJ
PL2-JF01C	74 - 78.5	8/1/2005	1	U
PL2-JF01C	74 - 78.5	5/2/2005	1	U
PL2-JF01C	74 - 78.5	2/1/2005	1	UJ
PL2-JF01C	74 - 78.5	11/1/2004	1	U
PL2-JF01C	74 - 78.5	9/27/2004	0.2	UJ
PL2-JF01C	74 - 78.5	5/10/2004	1	U
PL2-JF01C	74 - 78.5	12/19/2003	0.2	UJ
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	1	U
PL2-JF01C	74 - 78.5	1/21/2002	1	U
PL2-JF01C	74 - 78.5	10/24/2001	1	U
PL2-JF01C	74 - 78.5	7/25/2001	1	U
PL2-JF01C	74 - 78.5	5/17/2001	1	UJ
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	UJ
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	U
PL2-JF02A	5.5 - 23	5/10/2004	1	U
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	1	U
PL2-JF02A	5.5 - 23	10/24/2001	1	U
PL2-JF02A	5.5 - 23	7/25/2001	1	U
PL2-JF02A	5.5 - 23	4/26/2001	1	U
PL2-JF02A	5.5 - 23	11/21/1996	1	U

South Yard Area Historic COC Results
Tetrachloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
PL2-JF02A	5.5 - 23	11/21/1996	1	U
PL2-JF02A	5.5 - 23	8/26/1996	1	U
PL2-JF02A	5.5 - 23	5/23/1996	1	U
PL2-JF02A	5.5 - 23	3/1/1996	1	U
PL2-JF02A	5.5 - 23	11/17/1995	1	U
PL2-JF02A	5.5 - 23	9/27/1995	1	U
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	5/10/2004	1	U
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	U
PL2-JF03A	6 - 23	11/21/1996	1	U
PL2-JF03A	6 - 23	8/26/1996	1	U
PL2-JF03A	6 - 23	5/23/1996	1	U
PL2-JF03A	6 - 23	3/1/1996	1	U
PL2-JF03A	6 - 23	11/17/1995	1	U
PL2-JF03A	6 - 23	9/28/1995	1	U

South Yard Area Historic COC Results
1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
GP-06601	13	9/12/1994	1	U
GP-06601	23	9/12/1994	1	U
GP-06601	45	9/12/1994	1	U
GP-06602	14	9/13/1994	1	U
GP-06602	24	9/13/1994	1	U
GP-06602	45	9/13/1994	1	U
GP-06603	14	9/12/1994	1	U
GP-06603	24	9/12/1994	1	U
GP-06603	45	9/12/1994	1	U
GP-06604	14	9/13/1994	5	U
GP-06604	24	9/13/1994	1	U
GP-06604	45	9/13/1994	1	U
GP-06604	24	9/13/1994	1	U
GP-06633	15	11/28/1994	1	U
GP-06633	25	11/28/1994	1	U
GP-06633	45	11/28/1994	1	UJH
GP-06633	65	11/28/1994	1	UJH
GP-06633	25	11/28/1994	1	U
GP-06634	15	11/22/1994	1	U
GP-06634	25	11/22/1994	1	U
GP-06634	45	11/22/1994	1	UJ
GP-06634	65	11/22/1994	1	U
GP-06635	15	11/22/1994	1	U
GP-06635	25	11/22/1994	1	UJ
GP-06635	45	11/22/1994	1	U
GP-06635	65	11/22/1994	1	U
GP-06636	15	11/21/1994	1	U
GP-06636	25	11/21/1994	1	U
GP-06636	45	11/21/1994	1	U
GP-06636	65	11/21/1994	1	U
GP-06637	14	3/15/1995	1	U
GP-06637	25	3/15/1995	1	U
GP-06637	45	3/15/1995	1	U
GP-06638	14	3/16/1995	1	U
GP-06638	25	3/16/1995	1	U
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06639	25	3/16/1995	1	U
GP-06639	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-06640	25	3/15/1995	1	U
GP-06640	45	3/15/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-08001	13	9/2/1994	1	U
GP-08002	13	9/8/1994	1	U

South Yard Area Historic COC Results
1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
GP-08002	13	9/8/1994	1	U
GP-08003	12	8/25/1994	1	U
GP-08007	15	2/17/1995	1	U
GP-08008	17	7/26/1995	1	U
GP-08008	25	7/26/1995	1	U
GP-08701	15	2/17/1995	1	U
GP-08901	14	9/14/1994	1	U
GP-08901	24	9/14/1994	1	U
GP-08902	14	9/14/1994	1	U
GP-08902	24	9/14/1994	1	U
GP-08903	14	9/14/1994	1	U
GP-08903	24	9/14/1994	1	U
GP-08904	14	9/14/1994	1	U
GP-08904	24	9/14/1994	1	U
GP-08905	14	9/13/1994	1	U
GP-08905	24	9/13/1994	1	U
GP-08906	15	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08906	45	11/29/1994	1	U
GP-08906	65	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08907	63	11/29/1994	1	U
GP-08907	15	11/28/1994	1	U
GP-08907	25	11/28/1994	1	U
GP-08907	45	11/28/1994	1	U
GP-08908	14	3/17/1995	1	U
GP-08908	25	3/17/1995	1	U
GP-08908	45	3/17/1995	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
GP-09104	15	11/23/1994	1	U
GP-09104	25	11/23/1994	1	U
GP-09104	45	11/23/1994	1	U
GP-09105	15	11/23/1994	1	U
GP-09105	25	11/23/1994	1	U
GP-09105	45	11/23/1994	1	U
GP-09106	14	3/14/1995	1	U
GP-09106	25	3/14/1995	1	U
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	1	U
GP-09107	25	3/14/1995	1	U
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	1	U
GP-09108	25	3/14/1995	1	U
GP-09108	45	3/14/1995	1	U

South Yard Area Historic COC Results

1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
GP-09109	14	3/15/1995	1	U
GP-09109	25	3/15/1995	1	U
GP-09109	45	3/15/1995	1	U
GP-09110	15	9/19/1995	1	U
GP-09110	25	9/19/1995	1	U
GP-09110	45	9/19/1995	1	U
GP-09111	15	9/20/1995	1	U
GP-09111	25	9/20/1995	1	U
GP-09111	45	9/20/1995	1	U
GP-09112	15	9/19/1995	1	U
GP-09112	25	9/19/1995	1	U
GP-09112	45	9/19/1995	1	U
GP-09113	15	9/19/1995	1	U
GP-09113	25	9/19/1995	1	U
GP-09113	45	9/19/1995	1	U
GP-09114	15	9/20/1995	1	U
GP-09114	25	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09115	15	9/19/1995	1	U
GP-09115	25	9/19/1995	1	U
GP-09115	45	9/19/1995	1	U
PL2-101A	13 - 21	3/24/1995	1	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-101A	13 - 21	7/15/1992	1	U
PL2-101A	13 - 21	5/4/1988	1	U
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101C	71 - 81	7/15/1992	1	U
PL2-102A	8.5 - 18.5	3/24/1995	100	U
PL2-102A	8.5 - 18.5	7/17/1992	1	U
PL2-102A	8.5 - 18.5	5/4/1988	1	U
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	1	U
PL2-103A	4 - 20	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104A	7 - 27	5/4/1988	1	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	5/4/1988	1	U
PL2-105A	7.5 - 27.5	7/16/1992	1	U
PL2-105A	7.5 - 27.5	5/4/1988	1	U
PL2-105B	39 - 49	7/16/1992	1	U
PL2-105C	77 - 87	7/16/1992	1	U
PL2-106A	8 - 28	1/22/2001	1	U

South Yard Area Historic COC Results
1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
PL2-106A	8 - 28	8/4/2000	1	U
PL2-106A	8 - 28	8/22/1996	1	U
PL2-106A	8 - 28	3/4/1996	1	U
PL2-106A	8 - 28	3/4/1996	1	U
PL2-106A	8 - 28	11/21/1995	1	U
PL2-106A	8 - 28	8/17/1995	1	U
PL2-106A	8 - 28	3/24/1995	5	U
PL2-106A	8 - 28	7/15/1992	1	U
PL2-106A	8 - 28	5/4/1988	1	U
PL2-106B	39 - 49	3/28/1995	1	U
PL2-106B	39 - 49	7/15/1992	1	U
PL2-106C	82.5 - 92.5	7/15/1992	1	U
PL2-107A	10 - 20	7/17/1992	1	U
PL2-109A	8 - 18	7/16/1992	8.5	
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	1	U
PL2-110A	9 - 19	8/27/1996	1	U
PL2-110A	9 - 19	2/29/1996	1	U
PL2-110A	9 - 19	11/14/1995	1	U
PL2-110A	9 - 19	8/16/1995	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110A	9 - 19	7/15/1992	1	U
PL2-110B	47 - 57	7/15/1992	1	U
PL2-110C	82 - 92	7/15/1992	1	U
PL2-111A	8 - 18	12/22/1993	1	U
PL2-112A	8.5 - 18.5	8/15/2002	1	U
PL2-112A	8.5 - 18.5	3/31/1995	1	U
PL2-112A	8.5 - 18.5	8/2/1989	0.3	U
PL2-112A	8.5 - 18.5	1/18/1989	0.3	U
PL2-112B	40 - 50	8/15/2002	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-113A	8 - 18	8/20/2002	1	U
PL2-113A	8 - 18	8/2/1989	3	U
PL2-113A	8 - 18	1/18/1989	6	U
PL2-114A	8.5 - 18.5	8/2/1989	3	U
PL2-114A	8.5 - 18.5	1/18/1989	1	N
PL2-115A	7.5 - 17.7	8/20/2002	1	U
PL2-115A	7.5 - 17.7	8/2/1989	0.3	U
PL2-116A	7.5 - 17.8	8/20/2002	1	U
PL2-116A	7.5 - 17.8	8/2/1989	0.3	U
PL2-117A	7.9 - 17.9	8/16/2002	1	U
PL2-117A	7.9 - 17.9	8/2/1989	0.3	U
PL2-117A	7.9 - 17.9	1/18/1989	0.6	N
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	8/23/1996	1	U

South Yard Area Historic COC Results
1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
PL2-119A	8 - 18	3/4/1996	1	U
PL2-119A	8 - 18	11/14/1995	1	U
PL2-119A	8 - 18	8/4/1995	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	1/23/2001	1	U
PL2-151A	6 - 16	8/3/2000	1	U
PL2-151B	45 - 50	1/23/2001	1	U
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	1	U
PL2-151C	75 - 80	8/3/2000	1	U
PL2-152A	6 - 16	1/24/2001	1	U
PL2-152A	6 - 16	8/3/2000	1	U
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	1	U
PL2-152C	80 - 85	8/3/2000	1	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	1	U
PL2-154A	6 - 16	1/25/2001	1	U
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	1	U
PL2-155A	6 - 16	1/22/2001	1	U
PL2-155A	6 - 16	8/4/2000	1	U
PL2-155B	45 - 50	1/23/2001	1	U
PL2-155B	45 - 50	8/4/2000	1	U
PL2-155C	80 - 85	1/22/2001	1	U
PL2-155C	80 - 85	8/4/2000	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	8/4/2000	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-302A	7 - 22	7/7/1992	1	U
PL2-303A	8 - 13	7/7/1992	1	U
PL2-304A		3/24/1995	1	U
PL2-304A		7/7/1992	1	U
PL2-305A		7/7/1992	1	U
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-JF01A	7 - 17	11/21/1996	1	U
PL2-JF01A	7 - 17	8/26/1996	1	U
PL2-JF01A	7 - 17	5/23/1996	1	U
PL2-JF01A	7 - 17	3/1/1996	1	U
PL2-JF01A	7 - 17	11/17/1995	1	U
PL2-JF01A	7 - 17	9/27/1995	1	U

South Yard Area Historic COC Results

1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
PL2-JF01A	7 - 17	3/10/1995	1	U
PL2-JF01AR	23.2 - 27	5/1/2006	15	U
PL2-JF01AR	23.2 - 27	2/6/2006	10	U
PL2-JF01AR	23.2 - 27	10/31/2005	25	U
PL2-JF01AR	23.2 - 27	10/31/2005	10	U
PL2-JF01AR	23.2 - 27	8/1/2005	75	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	1	U
PL2-JF01AR	23.2 - 27	2/1/2005	50	UJ
PL2-JF01AR	23.2 - 27	11/1/2004	1	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	9/27/2004	50	UJ
PL2-JF01AR	23.2 - 27	8/2/2004	50	U
PL2-JF01AR	23.2 - 27	5/10/2004	50	U
PL2-JF01AR	23.2 - 27	2/2/2004	20	U
PL2-JF01AR	23.2 - 27	12/19/2003	5	U
PL2-JF01AR	23.2 - 27	12/19/2003	20	UJ
PL2-JF01AR	23.2 - 27	12/8/2003	30	U
PL2-JF01AR	23.2 - 27	9/2/2003	25	U
PL2-JF01AR	23.2 - 27	6/16/2003	100	U
PL2-JF01AR	23.2 - 27	1/21/2002	5	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	7/25/2001	1	U
PL2-JF01AR	23.2 - 27	5/17/2001	5	UD
PL2-JF01B	40 - 50	5/1/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	10/31/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	5/2/2005	1	U
PL2-JF01B	40 - 50	2/1/2005	1	UJ
PL2-JF01B	40 - 50	11/1/2004	1	U
PL2-JF01B	40 - 50	9/27/2004	0.2	UJ
PL2-JF01B	40 - 50	8/2/2004	1	U
PL2-JF01B	40 - 50	5/10/2004	1	U
PL2-JF01B	40 - 50	2/2/2004	5	U
PL2-JF01B	40 - 50	12/19/2003	5	U
PL2-JF01B	40 - 50	12/8/2003	5	U
PL2-JF01B	40 - 50	9/2/2003	1	U
PL2-JF01B	40 - 50	6/16/2003	1	U
PL2-JF01B	40 - 50	1/21/2002	1	U

South Yard Area Historic COC Results
1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
PL2-JF01B	40 - 50	10/24/2001	1	U
PL2-JF01B	40 - 50	7/25/2001	2	U
PL2-JF01B	40 - 50	4/26/2001	1	U
PL2-JF01B	40 - 50	11/21/1996	1	U
PL2-JF01B	40 - 50	8/26/1996	1	U
PL2-JF01B	40 - 50	5/23/1996	1	U
PL2-JF01B	40 - 50	3/1/1996	1	U
PL2-JF01B	40 - 50	11/17/1995	1	U
PL2-JF01B	40 - 50	9/27/1995	1	U
PL2-JF01B	40 - 50	3/31/1995	1	U
PL2-JF01C	74 - 78.5	5/1/2006	1	U
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	2	UJ
PL2-JF01C	74 - 78.5	8/1/2005	1	U
PL2-JF01C	74 - 78.5	5/2/2005	1	U
PL2-JF01C	74 - 78.5	2/1/2005	1	UJ
PL2-JF01C	74 - 78.5	11/1/2004	1	U
PL2-JF01C	74 - 78.5	9/27/2004	0.2	UJ
PL2-JF01C	74 - 78.5	5/10/2004	1	U
PL2-JF01C	74 - 78.5	12/19/2003	0.2	UJ
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	1	U
PL2-JF01C	74 - 78.5	1/21/2002	1	U
PL2-JF01C	74 - 78.5	10/24/2001	1	U
PL2-JF01C	74 - 78.5	7/25/2001	1	U
PL2-JF01C	74 - 78.5	5/17/2001	1	UJ
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	UJ
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	U
PL2-JF02A	5.5 - 23	5/10/2004	1	U
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	1	U
PL2-JF02A	5.5 - 23	10/24/2001	1	U
PL2-JF02A	5.5 - 23	7/25/2001	1	U
PL2-JF02A	5.5 - 23	4/26/2001	1	U
PL2-JF02A	5.5 - 23	11/21/1996	1	U

South Yard Area Historic COC Results

1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
PL2-JF02A	5.5 - 23	11/21/1996	1	U
PL2-JF02A	5.5 - 23	8/26/1996	1	U
PL2-JF02A	5.5 - 23	5/23/1996	1	U
PL2-JF02A	5.5 - 23	3/1/1996	1	U
PL2-JF02A	5.5 - 23	11/17/1995	1	U
PL2-JF02A	5.5 - 23	9/27/1995	1	U
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	5/10/2004	1	U
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	U
PL2-JF03A	6 - 23	11/21/1996	1	U
PL2-JF03A	6 - 23	8/26/1996	1	U
PL2-JF03A	6 - 23	5/23/1996	1	U
PL2-JF03A	6 - 23	3/1/1996	1	U
PL2-JF03A	6 - 23	11/17/1995	1	U
PL2-JF03A	6 - 23	9/28/1995	1	U

South Yard Area Historic COC Results
Trichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
GP-06601	13	9/12/1994	1	U
GP-06601	23	9/12/1994	1	U
GP-06601	45	9/12/1994	1	U
GP-06602	14	9/13/1994	1	U
GP-06602	24	9/13/1994	1	U
GP-06602	45	9/13/1994	1	U
GP-06603	14	9/12/1994	1.1	
GP-06603	24	9/12/1994	1	U
GP-06603	45	9/12/1994	1	U
GP-06604	14	9/13/1994	5	U
GP-06604	24	9/13/1994	1	U
GP-06604	45	9/13/1994	1	U
GP-06604	24	9/13/1994	1	U
GP-06633	15	11/28/1994	6.2	
GP-06633	25	11/28/1994	1	U
GP-06633	45	11/28/1994	1	UJH
GP-06633	65	11/28/1994	1	UJH
GP-06633	25	11/28/1994	1	U
GP-06634	15	11/22/1994	43	
GP-06634	25	11/22/1994	1	U
GP-06634	45	11/22/1994	1	UJ
GP-06634	65	11/22/1994	1	U
GP-06635	15	11/22/1994	1	U
GP-06635	25	11/22/1994	1	UJ
GP-06635	45	11/22/1994	1	U
GP-06635	65	11/22/1994	1	U
GP-06636	15	11/21/1994	1	U
GP-06636	25	11/21/1994	1	U
GP-06636	45	11/21/1994	1	U
GP-06636	65	11/21/1994	1	U
GP-06637	14	3/15/1995	70	
GP-06637	25	3/15/1995	1	U
GP-06637	45	3/15/1995	1	U
GP-06638	14	3/16/1995	1	U
GP-06638	25	3/16/1995	1	U
GP-06638	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06639	25	3/16/1995	1	U
GP-06639	45	3/16/1995	1	U
GP-06639	14	3/16/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-06640	25	3/15/1995	1	U
GP-06640	45	3/15/1995	1	U
GP-06640	14	3/15/1995	1	U
GP-08001	13	9/2/1994	1	U
GP-08002	13	9/8/1994	1	U

South Yard Area Historic COC Results
Trichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
GP-08002	13	9/8/1994	1	U
GP-08003	12	8/25/1994	1	U
GP-08007	15	2/17/1995	1	U
GP-08008	17	7/26/1995	36	
GP-08008	25	7/26/1995	1	U
GP-08701	15	2/17/1995	23	
GP-08901	14	9/14/1994	1	U
GP-08901	24	9/14/1994	1	U
GP-08902	14	9/14/1994	1	U
GP-08902	24	9/14/1994	2.8	
GP-08903	14	9/14/1994	1	U
GP-08903	24	9/14/1994	1	U
GP-08904	14	9/14/1994	1	U
GP-08904	24	9/14/1994	1	U
GP-08905	14	9/13/1994	1.7	
GP-08905	24	9/13/1994	1	U
GP-08906	15	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08906	45	11/29/1994	1	U
GP-08906	65	11/29/1994	1	U
GP-08906	25	11/29/1994	1	U
GP-08907	63	11/29/1994	1	U
GP-08907	15	11/28/1994	1	U
GP-08907	25	11/28/1994	20	
GP-08907	45	11/28/1994	1	U
GP-08908	14	3/17/1995	1	U
GP-08908	25	3/17/1995	1	U
GP-08908	45	3/17/1995	1	U
GP-09101	15	9/12/1994	1	U
GP-09102	14	9/8/1994	1	U
GP-09103	14	9/8/1994	1	U
GP-09104	15	11/23/1994	1	U
GP-09104	25	11/23/1994	1	U
GP-09104	45	11/23/1994	1	U
GP-09105	15	11/23/1994	1	U
GP-09105	25	11/23/1994	1	U
GP-09105	45	11/23/1994	1	U
GP-09106	14	3/14/1995	1	U
GP-09106	25	3/14/1995	1	U
GP-09106	45	3/14/1995	1	U
GP-09107	14	3/14/1995	1	U
GP-09107	25	3/14/1995	1	U
GP-09107	45	3/14/1995	1	U
GP-09108	14	3/14/1995	1	U
GP-09108	25	3/14/1995	1	U
GP-09108	45	3/14/1995	1	U

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
GP-09109	14	3/15/1995	1	U
GP-09109	25	3/15/1995	1	U
GP-09109	45	3/15/1995	1	U
GP-09110	15	9/19/1995	1	U
GP-09110	25	9/19/1995	1	U
GP-09110	45	9/19/1995	1	U
GP-09111	15	9/20/1995	1	U
GP-09111	25	9/20/1995	1	U
GP-09111	45	9/20/1995	1	U
GP-09112	15	9/19/1995	1	U
GP-09112	25	9/19/1995	1	U
GP-09112	45	9/19/1995	1	U
GP-09113	15	9/19/1995	1	U
GP-09113	25	9/19/1995	1	U
GP-09113	45	9/19/1995	1	U
GP-09114	15	9/20/1995	1	U
GP-09114	25	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09114	45	9/20/1995	1	U
GP-09115	15	9/19/1995	1	U
GP-09115	25	9/19/1995	1	U
GP-09115	45	9/19/1995	1	U
PL2-101A	13 - 21	3/24/1995	2.3	
PL2-101A	13 - 21	7/15/1992	0.7	J
PL2-101A	13 - 21	7/15/1992	0.6	J
PL2-101A	13 - 21	5/4/1988	7	
PL2-101B	45 - 55	3/24/1995	1	U
PL2-101C	71 - 81	7/15/1992	1	U
PL2-102A	8.5 - 18.5	3/24/1995	100	U
PL2-102A	8.5 - 18.5	7/17/1992	1100	
PL2-102A	8.5 - 18.5	5/4/1988	33000	
PL2-102B	47 - 57	7/17/1992	1	U
PL2-102C	77 - 87	7/17/1992	1	U
PL2-103A	4 - 20	7/17/1992	1	U
PL2-103A	4 - 20	5/4/1988	1	U
PL2-104A	7 - 27	7/16/1992	1	U
PL2-104A	7 - 27	5/4/1988	1	U
PL2-104B	40 - 50	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	7/16/1992	1	U
PL2-104C	76 - 96	5/4/1988	1	U
PL2-105A	7.5 - 27.5	7/16/1992	3.7	
PL2-105A	7.5 - 27.5	5/4/1988	57	
PL2-105B	39 - 49	7/16/1992	1	U
PL2-105C	77 - 87	7/16/1992	1	U
PL2-106A	8 - 28	1/22/2001	4	

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
PL2-106A	8 - 28	8/4/2000	9	
PL2-106A	8 - 28	8/22/1996	64	
PL2-106A	8 - 28	3/4/1996	260	D
PL2-106A	8 - 28	3/4/1996	190	D
PL2-106A	8 - 28	11/21/1995	350	D
PL2-106A	8 - 28	8/17/1995	79	
PL2-106A	8 - 28	3/24/1995	300	
PL2-106A	8 - 28	7/15/1992	11	
PL2-106A	8 - 28	5/4/1988	130	
PL2-106B	39 - 49	3/28/1995	6.4	
PL2-106B	39 - 49	7/15/1992	1	U
PL2-106C	82.5 - 92.5	7/15/1992	1	U
PL2-107A	10 - 20	7/17/1992	4.1	
PL2-109A	8 - 18	7/16/1992	1200	
PL2-109B	38 - 48	7/16/1992	1	U
PL2-109C	78 - 88	7/16/1992	2.1	
PL2-110A	9 - 19	8/27/1996	2.1	
PL2-110A	9 - 19	2/29/1996	34	
PL2-110A	9 - 19	11/14/1995	14	
PL2-110A	9 - 19	8/16/1995	6	
PL2-110A	9 - 19	7/15/1992	5.8	
PL2-110A	9 - 19	7/15/1992	5.9	
PL2-110B	47 - 57	7/15/1992	1	U
PL2-110C	82 - 92	7/15/1992	1	U
PL2-111A	8 - 18	12/22/1993	9.5	
PL2-112A	8.5 - 18.5	8/15/2002	7.9	
PL2-112A	8.5 - 18.5	3/31/1995	8.4	
PL2-112A	8.5 - 18.5	8/2/1989	3.1	
PL2-112A	8.5 - 18.5	1/18/1989	5.2	
PL2-112B	40 - 50	8/15/2002	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-112B	40 - 50	8/25/1995	1	U
PL2-113A	8 - 18	8/20/2002	17	
PL2-113A	8 - 18	8/2/1989	37	
PL2-113A	8 - 18	1/18/1989	39	B
PL2-114A	8.5 - 18.5	8/2/1989	8	U
PL2-114A	8.5 - 18.5	1/18/1989	1	
PL2-115A	7.5 - 17.7	8/20/2002	94	
PL2-115A	7.5 - 17.7	8/2/1989	29	
PL2-116A	7.5 - 17.8	8/20/2002	1	U
PL2-116A	7.5 - 17.8	8/2/1989	0.8	U
PL2-117A	7.9 - 17.9	8/16/2002	2.7	
PL2-117A	7.9 - 17.9	8/2/1989	13	
PL2-117A	7.9 - 17.9	1/18/1989	5.5	
PL2-118A	8 - 18	9/23/1994	1	U
PL2-119A	8 - 18	8/23/1996	1	U

South Yard Area Historic COC Results
Trichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
PL2-119A	8 - 18	3/4/1996	1	U
PL2-119A	8 - 18	11/14/1995	1	U
PL2-119A	8 - 18	8/4/1995	1	U
PL2-119A	8 - 18	9/26/1994	1	U
PL2-120A	8 - 18	9/26/1994	1	U
PL2-151A	6 - 16	1/23/2001	9.2	
PL2-151A	6 - 16	8/3/2000	5.9	
PL2-151B	45 - 50	1/23/2001	1	U
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	1	U
PL2-151C	75 - 80	8/3/2000	1	U
PL2-152A	6 - 16	1/24/2001	1	U
PL2-152A	6 - 16	8/3/2000	3	
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	1	U
PL2-152C	80 - 85	8/3/2000	1	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	1	U
PL2-154A	6 - 16	1/25/2001	1	U
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	1	U
PL2-155A	6 - 16	1/22/2001	1	
PL2-155A	6 - 16	8/4/2000	1.8	
PL2-155B	45 - 50	1/23/2001	1	U
PL2-155B	45 - 50	8/4/2000	1	U
PL2-155C	80 - 85	1/22/2001	1	U
PL2-155C	80 - 85	8/4/2000	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	1/23/2001	1	U
PL2-156A	6 - 16	8/4/2000	1.9	
PL2-301A	8 - 23	7/7/1992	1	U
PL2-301A	8 - 23	7/7/1992	1	U
PL2-302A	7 - 22	7/7/1992	1	U
PL2-303A	8 - 13	7/7/1992	1	U
PL2-304A		3/24/1995	1	U
PL2-304A		7/7/1992	1	U
PL2-305A		7/7/1992	1	U
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-JF01A	7 - 17	11/21/1996	4.7	
PL2-JF01A	7 - 17	8/26/1996	1	U
PL2-JF01A	7 - 17	5/23/1996	1	U
PL2-JF01A	7 - 17	3/1/1996	38	
PL2-JF01A	7 - 17	11/17/1995	10	
PL2-JF01A	7 - 17	9/27/1995	1	U

South Yard Area Historic COC Results
Trichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
PL2-JF01A	7 - 17	3/10/1995	1	U
PL2-JF01AR	23.2 - 27	5/1/2006	15	U
PL2-JF01AR	23.2 - 27	2/6/2006	10	U
PL2-JF01AR	23.2 - 27	10/31/2005	25	U
PL2-JF01AR	23.2 - 27	10/31/2005	10	U
PL2-JF01AR	23.2 - 27	8/1/2005	75	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	25	U
PL2-JF01AR	23.2 - 27	5/2/2005	1	U
PL2-JF01AR	23.2 - 27	2/1/2005	50	UJ
PL2-JF01AR	23.2 - 27	11/1/2004	1	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	11/1/2004	50	U
PL2-JF01AR	23.2 - 27	9/27/2004	50	UJ
PL2-JF01AR	23.2 - 27	8/2/2004	50	U
PL2-JF01AR	23.2 - 27	5/10/2004	50	U
PL2-JF01AR	23.2 - 27	2/2/2004	20	U
PL2-JF01AR	23.2 - 27	12/19/2003	5	U
PL2-JF01AR	23.2 - 27	12/19/2003	20	UJ
PL2-JF01AR	23.2 - 27	12/8/2003	30	U
PL2-JF01AR	23.2 - 27	9/2/2003	25	U
PL2-JF01AR	23.2 - 27	6/16/2003	100	U
PL2-JF01AR	23.2 - 27	1/21/2002	5	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	10/24/2001	1	U
PL2-JF01AR	23.2 - 27	7/25/2001	1	U
PL2-JF01AR	23.2 - 27	5/17/2001	5	UD
PL2-JF01B	40 - 50	5/1/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	1	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	2/6/2006	3	U
PL2-JF01B	40 - 50	10/31/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	8/1/2005	1	U
PL2-JF01B	40 - 50	5/2/2005	1	U
PL2-JF01B	40 - 50	2/1/2005	1	UJ
PL2-JF01B	40 - 50	11/1/2004	1	U
PL2-JF01B	40 - 50	9/27/2004	3.8	J
PL2-JF01B	40 - 50	8/2/2004	1	U
PL2-JF01B	40 - 50	5/10/2004	1	U
PL2-JF01B	40 - 50	2/2/2004	5	U
PL2-JF01B	40 - 50	12/19/2003	5	U
PL2-JF01B	40 - 50	12/8/2003	5	U
PL2-JF01B	40 - 50	9/2/2003	1	U
PL2-JF01B	40 - 50	6/16/2003	1	U
PL2-JF01B	40 - 50	1/21/2002	1	U

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
PL2-JF01B	40 - 50	10/24/2001	1	U
PL2-JF01B	40 - 50	7/25/2001	2	U
PL2-JF01B	40 - 50	4/26/2001	1	U
PL2-JF01B	40 - 50	11/21/1996	1	U
PL2-JF01B	40 - 50	8/26/1996	1	U
PL2-JF01B	40 - 50	5/23/1996	1	U
PL2-JF01B	40 - 50	3/1/1996	1	U
PL2-JF01B	40 - 50	11/17/1995	1	U
PL2-JF01B	40 - 50	9/27/1995	1	U
PL2-JF01B	40 - 50	3/31/1995	1	U
PL2-JF01C	74 - 78.5	5/1/2006	1	U
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	2	UJ
PL2-JF01C	74 - 78.5	8/1/2005	1	U
PL2-JF01C	74 - 78.5	5/2/2005	1	U
PL2-JF01C	74 - 78.5	2/1/2005	1	UJ
PL2-JF01C	74 - 78.5	11/1/2004	1	U
PL2-JF01C	74 - 78.5	9/27/2004	1.7	J
PL2-JF01C	74 - 78.5	5/10/2004	1	U
PL2-JF01C	74 - 78.5	12/19/2003	0.2	UJ
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	1	U
PL2-JF01C	74 - 78.5	1/21/2002	1	U
PL2-JF01C	74 - 78.5	10/24/2001	1	U
PL2-JF01C	74 - 78.5	7/25/2001	1	U
PL2-JF01C	74 - 78.5	5/17/2001	1	UJ
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	UJ
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	U
PL2-JF02A	5.5 - 23	5/10/2004	1	U
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	1	U
PL2-JF02A	5.5 - 23	10/24/2001	1	U
PL2-JF02A	5.5 - 23	7/25/2001	1	U
PL2-JF02A	5.5 - 23	4/26/2001	1	U
PL2-JF02A	5.5 - 23	11/21/1996	1.6	

South Yard Area Historic COC Results
Trichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
PL2-JF02A	5.5 - 23	11/21/1996	1.5	
PL2-JF02A	5.5 - 23	8/26/1996	1	U
PL2-JF02A	5.5 - 23	5/23/1996	1	U
PL2-JF02A	5.5 - 23	3/1/1996	1	U
PL2-JF02A	5.5 - 23	11/17/1995	1.2	
PL2-JF02A	5.5 - 23	9/27/1995	1	U
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	5/10/2004	1	U
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	U
PL2-JF03A	6 - 23	11/21/1996	1	U
PL2-JF03A	6 - 23	8/26/1996	1	U
PL2-JF03A	6 - 23	5/23/1996	1	U
PL2-JF03A	6 - 23	3/1/1996	1	U
PL2-JF03A	6 - 23	11/17/1995	1	U
PL2-JF03A	6 - 23	9/28/1995	1	U

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
GP-06601	13	9/12/1994	2.5	
GP-06601	23	9/12/1994	22	
GP-06601	45	9/12/1994	2	U
GP-06601	45	9/12/1994	0.036	UB
GP-06602	14	9/13/1994	2	U
GP-06602	14	9/13/1994	0.36	
GP-06602	24	9/13/1994	2	U
GP-06602	24	9/13/1994	0.54	
GP-06602	45	9/13/1994	2	U
GP-06602	45	9/13/1994	0.092	
GP-06603	14	9/12/1994	2	U
GP-06603	14	9/12/1994	0.02	U
GP-06603	24	9/12/1994	13	
GP-06603	45	9/12/1994	26	
GP-06604	14	9/13/1994	10	U
GP-06604	14	9/13/1994	0.61	
GP-06604	24	9/13/1994	2	U
GP-06604	24	9/13/1994	0.75	
GP-06604	45	9/13/1994	2	U
GP-06604	45	9/13/1994	0.82	
GP-06604	24	9/13/1994	2	U
GP-06604	24	9/13/1994	0.76	
GP-06633	15	11/28/1994	2	U
GP-06633	15	11/28/1994	0.82	
GP-06633	25	11/28/1994	16000	D
GP-06633	45	11/28/1994	9.6	JH
GP-06633	65	11/28/1994	2	UJH
GP-06633	65	11/28/1994	0.069	
GP-06633	25	11/28/1994	13000	D
GP-06634	15	11/22/1994	2	U
GP-06634	15	11/22/1994	0.6	
GP-06634	25	11/22/1994	6.6	
GP-06634	45	11/22/1994	2	UJ
GP-06634	45	11/22/1994	0.3	
GP-06634	65	11/22/1994	2	U
GP-06634	65	11/22/1994	0.02	U
GP-06635	15	11/22/1994	2	U
GP-06635	15	11/22/1994	0.02	U
GP-06635	25	11/22/1994	2	UJ
GP-06635	25	11/22/1994	0.8	
GP-06635	45	11/22/1994	2	U
GP-06635	45	11/22/1994	0.21	
GP-06635	65	11/22/1994	2	U
GP-06635	65	11/22/1994	0.036	
GP-06636	15	11/21/1994	2	U
GP-06636	15	11/21/1994	1.1	

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
GP-06636	25	11/21/1994	1800	D
GP-06636	45	11/21/1994	2	U
GP-06636	45	11/21/1994	1.3	
GP-06636	65	11/21/1994	2	U
GP-06636	65	11/21/1994	0.11	
GP-06637	14	3/15/1995	2	U
GP-06637	14	3/15/1995	0.02	U
GP-06637	25	3/15/1995	2	U
GP-06637	25	3/15/1995	1.1	
GP-06637	45	3/15/1995	2	U
GP-06637	45	3/15/1995	0.85	
GP-06638	14	3/16/1995	2	U
GP-06638	14	3/16/1995	0.02	U
GP-06638	25	3/16/1995	2.7	
GP-06638	45	3/16/1995	2	U
GP-06638	45	3/16/1995	0.28	
GP-06639	14	3/16/1995	3.8	
GP-06639	25	3/16/1995	90	
GP-06639	45	3/16/1995	4.1	
GP-06639	14	3/16/1995	5.5	
GP-06640	14	3/15/1995	2	U
GP-06640	14	3/15/1995	0.02	U
GP-06640	25	3/15/1995	2	U
GP-06640	25	3/15/1995	0.3	
GP-06640	45	3/15/1995	2	U
GP-06640	45	3/15/1995	0.32	
GP-06640	14	3/15/1995	2	U
GP-06640	14	3/15/1995	0.02	U
GP-08001	13	9/2/1994	2	U
GP-08001	13	9/2/1994	0.02	U
GP-08002	13	9/8/1994	2	U
GP-08002	13	9/8/1994	0.14	J
GP-08002	13	9/8/1994	2	U
GP-08002	13	9/8/1994	0.08	J
GP-08003	12	8/25/1994	2	U
GP-08003	12	8/25/1994	0.05	
GP-08007	15	2/17/1995	1	U
GP-08007	15	2/17/1995	0.042	
GP-08008	17	7/26/1995	2	U
GP-08008	17	7/26/1995	0.16	
GP-08008	25	7/26/1995	6.8	
GP-08701	15	2/17/1995	17	
GP-08701	15	2/17/1995	21	R
GP-08901	14	9/14/1994	13	
GP-08901	24	9/14/1994	25	
GP-08902	14	9/14/1994	21	

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
GP-08902	24	9/14/1994	54	
GP-08903	14	9/14/1994	2	U
GP-08903	14	9/14/1994	0.37	
GP-08903	24	9/14/1994	25	
GP-08904	14	9/14/1994	2	U
GP-08904	14	9/14/1994	0.02	U
GP-08904	24	9/14/1994	2	U
GP-08904	24	9/14/1994	0.26	
GP-08905	14	9/13/1994	2	U
GP-08905	14	9/13/1994	0.02	U
GP-08905	24	9/13/1994	2	U
GP-08905	24	9/13/1994	0.084	
GP-08906	15	11/29/1994	2	U
GP-08906	15	11/29/1994	0.02	U
GP-08906	25	11/29/1994	22	
GP-08906	45	11/29/1994	7.2	
GP-08906	65	11/29/1994	2	U
GP-08906	65	11/29/1994	0.02	U
GP-08906	25	11/29/1994	22	
GP-08907	63	11/29/1994	2	U
GP-08907	63	11/29/1994	0.02	U
GP-08907	15	11/28/1994	2	U
GP-08907	15	11/28/1994	0.078	
GP-08907	25	11/28/1994	32	
GP-08907	45	11/28/1994	22	
GP-08908	14	3/17/1995	2	U
GP-08908	14	3/17/1995	0.02	U
GP-08908	25	3/17/1995	2	U
GP-08908	25	3/17/1995	0.02	U
GP-08908	45	3/17/1995	2	U
GP-08908	45	3/17/1995	0.02	U
GP-09101	15	9/12/1994	2	U
GP-09101	15	9/12/1994	0.034	UB
GP-09102	14	9/8/1994	2	U
GP-09102	14	9/8/1994	0.71	
GP-09103	14	9/8/1994	9.7	
GP-09104	15	11/23/1994	2	U
GP-09104	15	11/23/1994	0.02	U
GP-09104	25	11/23/1994	13	
GP-09104	45	11/23/1994	2	U
GP-09104	45	11/23/1994	0.17	
GP-09105	15	11/23/1994	2	U
GP-09105	15	11/23/1994	0.02	U
GP-09105	25	11/23/1994	78	
GP-09105	45	11/23/1994	2	U
GP-09105	45	11/23/1994	0.68	

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
GP-09106	14	3/14/1995	2	U
GP-09106	14	3/14/1995	0.02	U
GP-09106	25	3/14/1995	30	
GP-09106	45	3/14/1995	2.2	
GP-09107	14	3/14/1995	2	U
GP-09107	14	3/14/1995	0.02	U
GP-09107	25	3/14/1995	23	
GP-09107	45	3/14/1995	2	U
GP-09107	45	3/14/1995	0.22	
GP-09108	14	3/14/1995	2	U
GP-09108	14	3/14/1995	0.02	U
GP-09108	25	3/14/1995	21	
GP-09108	45	3/14/1995	2	U
GP-09108	45	3/14/1995	1.5	
GP-09109	14	3/15/1995	2	U
GP-09109	14	3/15/1995	0.38	
GP-09109	25	3/15/1995	77	
GP-09109	45	3/15/1995	2	U
GP-09109	45	3/15/1995	0.21	
GP-09110	15	9/19/1995	2	U
GP-09110	15	9/19/1995	0.73	
GP-09110	25	9/19/1995	2	U
GP-09110	25	9/19/1995	1.4	
GP-09110	45	9/19/1995	2.7	
GP-09111	15	9/20/1995	2	U
GP-09111	15	9/20/1995	2.5	
GP-09111	25	9/20/1995	2	U
GP-09111	25	9/20/1995	0.7	
GP-09111	45	9/20/1995	16	
GP-09112	15	9/19/1995	2	U
GP-09112	15	9/19/1995	0.01	U
GP-09112	25	9/19/1995	2	U
GP-09112	25	9/19/1995	1.6	
GP-09112	45	9/19/1995	7.5	
GP-09113	15	9/19/1995	2	U
GP-09113	15	9/19/1995	0.01	U
GP-09113	25	9/19/1995	2	U
GP-09113	25	9/19/1995	0.24	
GP-09113	45	9/19/1995	16	
GP-09114	15	9/20/1995	11	
GP-09114	25	9/20/1995	2	U
GP-09114	25	9/20/1995	0.01	U
GP-09114	45	9/20/1995	3.2	
GP-09114	45	9/20/1995	3.6	
GP-09115	15	9/19/1995	2	U
GP-09115	15	9/19/1995	0.01	U

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
GP-09115	25	9/19/1995	2	U
GP-09115	25	9/19/1995	0.32	
GP-09115	45	9/19/1995	2	U
GP-09115	45	9/19/1995	0.4	
PL2-101A	13 - 21	3/24/1995	26	
PL2-101A	13 - 21	7/15/1992	8.2	
PL2-101A	13 - 21	7/15/1992	12	
PL2-101A	13 - 21	5/4/1988	23	
PL2-101B	45 - 55	3/24/1995	2	U
PL2-101B	45 - 55	3/24/1995	0.02	U
PL2-101C	71 - 81	7/15/1992	0.2	U
PL2-102A	8.5 - 18.5	3/24/1995	4700	
PL2-102A	8.5 - 18.5	7/17/1992	1400	
PL2-102A	8.5 - 18.5	5/4/1988	150	
PL2-102B	47 - 57	7/17/1992	0.2	U
PL2-102C	77 - 87	7/17/1992	0.2	U
PL2-103A	4 - 20	7/17/1992	0.2	U
PL2-103A	4 - 20	5/4/1988	1	U
PL2-104A	7 - 27	7/16/1992	5.8	
PL2-104A	7 - 27	5/4/1988	30	
PL2-104B	40 - 50	7/16/1992	0.2	U
PL2-104C	76 - 96	7/16/1992	0.2	U
PL2-104C	76 - 96	7/16/1992	0.2	U
PL2-104C	76 - 96	5/4/1988	1	U
PL2-105A	7.5 - 27.5	7/16/1992	12	
PL2-105A	7.5 - 27.5	5/4/1988	9	
PL2-105B	39 - 49	7/16/1992	0.2	U
PL2-105C	77 - 87	7/16/1992	0.2	U
PL2-106A	8 - 28	1/22/2001	14	
PL2-106A	8 - 28	8/4/2000	20	
PL2-106A	8 - 28	8/22/1996	28	
PL2-106A	8 - 28	3/4/1996	18	
PL2-106A	8 - 28	3/4/1996	15	
PL2-106A	8 - 28	11/21/1995	18	
PL2-106A	8 - 28	11/21/1995	18	E
PL2-106A	8 - 28	8/17/1995	17	
PL2-106A	8 - 28	3/24/1995	13	
PL2-106A	8 - 28	7/15/1992	23	
PL2-106A	8 - 28	5/4/1988	74	
PL2-106B	39 - 49	3/28/1995	6.3	
PL2-106B	39 - 49	7/15/1992	29	
PL2-106C	82.5 - 92.5	7/15/1992	0.2	U
PL2-107A	10 - 20	7/17/1992	40	
PL2-109A	8 - 18	7/16/1992	170	
PL2-109B	38 - 48	7/16/1992	2	U
PL2-109C	78 - 88	7/16/1992	0.2	U

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
PL2-110A	9 - 19	8/27/1996	14	
PL2-110A	9 - 19	2/29/1996	2.1	
PL2-110A	9 - 19	11/14/1995	11	
PL2-110A	9 - 19	11/14/1995	9.9	E
PL2-110A	9 - 19	8/16/1995	8.5	
PL2-110A	9 - 19	7/15/1992	21	
PL2-110A	9 - 19	7/15/1992	15	
PL2-110B	47 - 57	7/15/1992	5.7	
PL2-110C	82 - 92	7/15/1992	0.19	J
PL2-111A	8 - 18	12/22/1993	7.3	
PL2-112A	8.5 - 18.5	8/15/2002	11	
PL2-112A	8.5 - 18.5	3/31/1995	6	
PL2-112A	8.5 - 18.5	8/2/1989	27	
PL2-112A	8.5 - 18.5	1/18/1989	72	
PL2-112B	40 - 50	8/15/2002	1	U
PL2-112B	40 - 50	8/25/1995	2	U
PL2-112B	40 - 50	8/25/1995	0.71	
PL2-112B	40 - 50	8/25/1995	2	U
PL2-112B	40 - 50	8/25/1995	0.66	
PL2-113A	8 - 18	8/20/2002	8.4	
PL2-113A	8 - 18	8/2/1989	10	J
PL2-113A	8 - 18	1/18/1989	27	
PL2-114A	8.5 - 18.5	8/2/1989	11	U
PL2-114A	8.5 - 18.5	1/18/1989	32	
PL2-115A	7.5 - 17.7	8/20/2002	19	
PL2-115A	7.5 - 17.7	8/2/1989	160	
PL2-116A	7.5 - 17.8	8/20/2002	2.3	
PL2-116A	7.5 - 17.8	8/2/1989	2.7	
PL2-117A	7.9 - 17.9	8/16/2002	58	
PL2-117A	7.9 - 17.9	8/2/1989	8.4	
PL2-117A	7.9 - 17.9	1/18/1989	31	
PL2-118A	8 - 18	9/23/1994	2	U
PL2-118A	8 - 18	9/23/1994	0.16	
PL2-119A	8 - 18	8/23/1996	2	U
PL2-119A	8 - 18	3/4/1996	2	U
PL2-119A	8 - 18	11/14/1995	2	U
PL2-119A	8 - 18	11/14/1995	0.13	
PL2-119A	8 - 18	8/4/1995	2	U
PL2-119A	8 - 18	8/4/1995	0.32	
PL2-119A	8 - 18	9/26/1994	2	U
PL2-119A	8 - 18	9/26/1994	0.19	
PL2-120A	8 - 18	9/26/1994	2	U
PL2-120A	8 - 18	9/26/1994	0.2	
PL2-151A	6 - 16	1/23/2001	1	U
PL2-151A	6 - 16	8/3/2000	2.9	
PL2-151B	45 - 50	1/23/2001	1	U

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
PL2-151B	45 - 50	8/2/2000	1	U
PL2-151C	75 - 80	1/23/2001	1	U
PL2-151C	75 - 80	8/3/2000	1	U
PL2-152A	6 - 16	1/24/2001	5.8	
PL2-152A	6 - 16	8/3/2000	5.6	
PL2-152B	45 - 50	1/24/2001	1	U
PL2-152B	45 - 50	8/3/2000	1	U
PL2-152C	80 - 85	1/24/2001	1	U
PL2-152C	80 - 85	8/3/2000	1	U
PL2-153A	6 - 16	1/25/2001	1	U
PL2-153B	45 - 50	1/24/2001	1	U
PL2-153C	80 - 85	1/24/2001	1	U
PL2-154A	6 - 16	1/25/2001	8.5	
PL2-154B	45 - 50	1/25/2001	1	U
PL2-154C	80 - 85	1/25/2001	1	U
PL2-155A	6 - 16	1/22/2001	9.4	
PL2-155A	6 - 16	8/4/2000	7.3	
PL2-155B	45 - 50	1/23/2001	3	
PL2-155B	45 - 50	8/4/2000	2.3	
PL2-155C	80 - 85	1/22/2001	1	U
PL2-155C	80 - 85	8/4/2000	1	U
PL2-156A	6 - 16	1/23/2001	23	
PL2-156A	6 - 16	1/23/2001	23	
PL2-156A	6 - 16	8/4/2000	44	
PL2-301A	8 - 23	7/7/1992	2	U
PL2-301A	8 - 23	7/7/1992	2	U
PL2-302A	7 - 22	7/7/1992	2	U
PL2-303A	8 - 13	7/7/1992	2	U
PL2-304A		3/24/1995	2	U
PL2-304A		3/24/1995	0.1	
PL2-304A		7/7/1992	2	U
PL2-305A		7/7/1992	2	U
PL2-BF01A	8 - 18	8/27/2002	1	U
PL2-JF01A	7 - 17	11/21/1996	2	U
PL2-JF01A	7 - 17	8/26/1996	2	U
PL2-JF01A	7 - 17	5/23/1996	2	U
PL2-JF01A	7 - 17	3/1/1996	2	U
PL2-JF01A	7 - 17	11/17/1995	2	U
PL2-JF01A	7 - 17	11/17/1995	0.94	
PL2-JF01A	7 - 17	9/27/1995	2	U
PL2-JF01A	7 - 17	9/27/1995	0.91	
PL2-JF01A	7 - 17	3/10/1995	2.2	
PL2-JF01AR	23.2 - 27	5/1/2006	2600	
PL2-JF01AR	23.2 - 27	2/6/2006	1100	
PL2-JF01AR	23.2 - 27	10/31/2005	1600	J
PL2-JF01AR	23.2 - 27	10/31/2005	1900	J

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
PL2-JF01AR	23.2 - 27	8/1/2005	4000	
PL2-JF01AR	23.2 - 27	5/2/2005	4300	
PL2-JF01AR	23.2 - 27	5/2/2005	2600	
PL2-JF01AR	23.2 - 27	5/2/2005	2400	E
PL2-JF01AR	23.2 - 27	2/1/2005	2000	J
PL2-JF01AR	23.2 - 27	11/1/2004	1100	E
PL2-JF01AR	23.2 - 27	11/1/2004	2900	
PL2-JF01AR	23.2 - 27	11/1/2004	2800	
PL2-JF01AR	23.2 - 27	9/27/2004	5000	J
PL2-JF01AR	23.2 - 27	8/2/2004	7000	J
PL2-JF01AR	23.2 - 27	5/10/2004	4500	JL
PL2-JF01AR	23.2 - 27	2/2/2004	5400	
PL2-JF01AR	23.2 - 27	12/19/2003	2000	J
PL2-JF01AR	23.2 - 27	12/19/2003	2200	J
PL2-JF01AR	23.2 - 27	12/8/2003	1300	
PL2-JF01AR	23.2 - 27	9/2/2003	1700	
PL2-JF01AR	23.2 - 27	6/16/2003	4800	
PL2-JF01AR	23.2 - 27	1/21/2002	16000	D
PL2-JF01AR	23.2 - 27	10/24/2001	550	D
PL2-JF01AR	23.2 - 27	10/24/2001	540	D
PL2-JF01AR	23.2 - 27	7/25/2001	2300	D
PL2-JF01AR	23.2 - 27	5/17/2001	410	D
PL2-JF01B	40 - 50	5/1/2006	5.1	
PL2-JF01B	40 - 50	2/6/2006	240	E
PL2-JF01B	40 - 50	2/6/2006	160	
PL2-JF01B	40 - 50	2/6/2006	160	
PL2-JF01B	40 - 50	10/31/2005	35	
PL2-JF01B	40 - 50	8/1/2005	55	
PL2-JF01B	40 - 50	8/1/2005	55	
PL2-JF01B	40 - 50	5/2/2005	29	
PL2-JF01B	40 - 50	2/1/2005	87	J
PL2-JF01B	40 - 50	11/1/2004	62	
PL2-JF01B	40 - 50	9/27/2004	1.2	J
PL2-JF01B	40 - 50	8/2/2004	38	J
PL2-JF01B	40 - 50	5/10/2004	13	JL
PL2-JF01B	40 - 50	2/2/2004	100	
PL2-JF01B	40 - 50	12/19/2003	170	J
PL2-JF01B	40 - 50	12/8/2003	120	
PL2-JF01B	40 - 50	9/2/2003	240	
PL2-JF01B	40 - 50	6/16/2003	57	
PL2-JF01B	40 - 50	1/21/2002	150	
PL2-JF01B	40 - 50	10/24/2001	190	D
PL2-JF01B	40 - 50	7/25/2001	170	
PL2-JF01B	40 - 50	4/26/2001	130	J
PL2-JF01B	40 - 50	11/21/1996	2	U
PL2-JF01B	40 - 50	8/26/1996	2	U

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
PL2-JF01B	40 - 50	5/23/1996	2	U
PL2-JF01B	40 - 50	3/1/1996	2	U
PL2-JF01B	40 - 50	11/17/1995	2	U
PL2-JF01B	40 - 50	11/17/1995	0.3	
PL2-JF01B	40 - 50	9/27/1995	2	U
PL2-JF01B	40 - 50	9/27/1995	0.32	
PL2-JF01B	40 - 50	3/31/1995	2	U
PL2-JF01B	40 - 50	3/31/1995	0.43	
PL2-JF01C	74 - 78.5	5/1/2006	1	U
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	2/6/2006	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	1	UJ
PL2-JF01C	74 - 78.5	10/31/2005	2	UJ
PL2-JF01C	74 - 78.5	8/1/2005	1	U
PL2-JF01C	74 - 78.5	5/2/2005	1	U
PL2-JF01C	74 - 78.5	2/1/2005	1	UJ
PL2-JF01C	74 - 78.5	11/1/2004	1	U
PL2-JF01C	74 - 78.5	9/27/2004	0.3	J
PL2-JF01C	74 - 78.5	5/10/2004	1	UJL
PL2-JF01C	74 - 78.5	12/19/2003	0.2	UJ
PL2-JF01C	74 - 78.5	12/8/2003	1	U
PL2-JF01C	74 - 78.5	6/16/2003	1	U
PL2-JF01C	74 - 78.5	1/21/2002	1	U
PL2-JF01C	74 - 78.5	10/24/2001	1	U
PL2-JF01C	74 - 78.5	7/25/2001	1	U
PL2-JF01C	74 - 78.5	5/17/2001	1	UJ
PL2-JF02A	5.5 - 23	5/1/2006	1	U
PL2-JF02A	5.5 - 23	2/6/2006	1	U
PL2-JF02A	5.5 - 23	10/31/2005	1	U
PL2-JF02A	5.5 - 23	8/1/2005	1	U
PL2-JF02A	5.5 - 23	5/2/2005	1	U
PL2-JF02A	5.5 - 23	2/1/2005	1	UJ
PL2-JF02A	5.5 - 23	11/1/2004	1	U
PL2-JF02A	5.5 - 23	8/2/2004	1	UJ
PL2-JF02A	5.5 - 23	5/10/2004	1	UJL
PL2-JF02A	5.5 - 23	2/2/2004	1	U
PL2-JF02A	5.5 - 23	12/8/2003	1	U
PL2-JF02A	5.5 - 23	9/2/2003	1	U
PL2-JF02A	5.5 - 23	6/16/2003	1	U
PL2-JF02A	5.5 - 23	1/21/2002	2.5	
PL2-JF02A	5.5 - 23	10/24/2001	5.8	
PL2-JF02A	5.5 - 23	7/25/2001	3.3	
PL2-JF02A	5.5 - 23	4/26/2001	1.2	J
PL2-JF02A	5.5 - 23	11/21/1996	2	U
PL2-JF02A	5.5 - 23	11/21/1996	2	U
PL2-JF02A	5.5 - 23	8/26/1996	2	U

South Yard Area Historic COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
PL2-JF02A	5.5 - 23	5/23/1996	2	U
PL2-JF02A	5.5 - 23	3/1/1996	2	U
PL2-JF02A	5.5 - 23	11/17/1995	2	U
PL2-JF02A	5.5 - 23	11/17/1995	0.44	
PL2-JF02A	5.5 - 23	9/27/1995	2	U
PL2-JF02A	5.5 - 23	9/27/1995	1.3	
PL2-JF03A	6 - 23	10/31/2005	1	U
PL2-JF03A	6 - 23	5/2/2005	1	U
PL2-JF03A	6 - 23	11/1/2004	1	U
PL2-JF03A	6 - 23	5/10/2004	1	UJL
PL2-JF03A	6 - 23	12/8/2003	1	U
PL2-JF03A	6 - 23	6/16/2003	1	U
PL2-JF03A	6 - 23	1/21/2002	1	U
PL2-JF03A	6 - 23	10/24/2001	1	U
PL2-JF03A	6 - 23	7/25/2001	1	U
PL2-JF03A	6 - 23	4/26/2001	1	UJ
PL2-JF03A	6 - 23	11/21/1996	2	U
PL2-JF03A	6 - 23	8/26/1996	2	U
PL2-JF03A	6 - 23	5/23/1996	2	U
PL2-JF03A	6 - 23	3/1/1996	2	U
PL2-JF03A	6 - 23	11/17/1995	2	U
PL2-JF03A	6 - 23	11/17/1995	0.51	
PL2-JF03A	6 - 23	9/28/1995	2	U
PL2-JF03A	6 - 23	9/28/1995	0.65	

South Yard Area Historic COC Results
TPH-Diesel Range Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
TPH - Diesel Range - 2004 Groundwater Screening Level = 500 µg/L				
GP-06601	13	9/12/1994	250	U
GP-06602	14	9/13/1994	250	U
GP-06603	14	9/12/1994	250	U
GP-06604	14	9/13/1994	250	U
GP-08701	15	2/17/1995	10000	U
GP-09101	15	9/12/1994	10000	U
GP-09102	14	9/8/1994	10000	U
GP-09103	14	9/8/1994	10000	U
PL2-101A	13 - 21	7/15/1992	3000	U
PL2-102A	8.5 - 18.5	7/17/1992	3000	U
PL2-103A	4 - 20	7/17/1992	3000	U
PL2-104A	7 - 27	7/16/1992	3000	U
PL2-105A	7.5 - 27.5	7/16/1992	3000	U
PL2-106A	8 - 28	7/15/1992	3000	U
PL2-107A	10 - 20	7/17/1992	3000	U
PL2-108A	10 - 20	7/17/1992	3000	U
PL2-109A	8 - 18	7/16/1992	3000	U
PL2-110A	9 - 19	7/15/1992	3000	U
PL2-110A	9 - 19	7/15/1992	3000	U
PL2-111A	8 - 18	12/22/1993	10000	U
PL2-301A	8 - 23	7/7/1992	250	U
PL2-301A	8 - 23	7/7/1992	250	U
PL2-302A	7 - 22	7/7/1992	250	U
PL2-303A	8 - 13	7/7/1992	250	U
PL2-304A		7/7/1992	250	U
PL2-305A		7/7/1992	250	U
PL2-318A	8 - 18	12/21/1993	10000	U
PL2-JF01A	7 - 17	2/17/2005	270	
PL2-JF01A	7 - 17	2/17/2005	260	
PL2-JF04A	8 - 18	2/18/2005	730	

South Yard Area Historic COC Results

TPH - Gasoline Range Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
TPH - Gasoline Range - 2004 Groundwater Screening Level = 800 µg/L				
GP-08001	13	9/2/1994	250	U
GP-08002	13	9/8/1994	250	U
GP-08003	12	8/25/1994	250	U
GP-08007	15	2/17/1995	250	U
GP-08701	15	2/17/1995	10000	U
GP-09101	15	9/12/1994	10000	U
GP-09102	14	9/8/1994	10000	U
GP-09103	14	9/8/1994	10000	U
PL2-101A	13 - 21	7/15/1992	250	U
PL2-102A	8.5 - 18.5	7/17/1992	3000	U
PL2-103A	4 - 20	7/17/1992	3000	U
PL2-104A	7 - 27	7/16/1992	250	U
PL2-105A	7.5 - 27.5	7/16/1992	250	U
PL2-106A	8 - 28	7/15/1992	250	U
PL2-107A	10 - 20	7/17/1992	3000	U
PL2-108A	10 - 20	7/17/1992	3000	U
PL2-109A	8 - 18	7/16/1992	250	U
PL2-110A	9 - 19	7/15/1992	260	
PL2-110A	9 - 19	7/15/1992	190	J
PL2-111A	8 - 18	12/22/1993	10000	U
PL2-318A	8 - 18	12/21/1993	10000	U
PL2-JF01A	7 - 17	11/21/1996	250	U
PL2-JF01A	7 - 17	8/26/1996	460	
PL2-JF01A	7 - 17	5/23/1996	450	
PL2-JF01A	7 - 17	5/23/1996	440	
PL2-JF01A	7 - 17	3/1/1996	250	U
PL2-JF01A	7 - 17	11/17/1995	360	
PL2-JF01A	7 - 17	9/27/1995	480	

South Yard Area Historic COC Results

TPH - Motor Oil Range Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
TPH - Motor Oil Range - 2004 Groundwater Screening Level = 500 µg/L				
GP-08701	15	2/17/1995	25000	U
GP-09101	15	9/12/1994	25000	U
GP-09102	14	9/8/1994	25000	U
GP-09103	14	9/8/1994	25000	U
PL2-111A	8 - 18	12/22/1993	25000	U
PL2-318A	8 - 18	12/21/1993	25000	U
PL2-JF01A	7 - 17	2/17/2005	250	U
PL2-JF01A	7 - 17	2/17/2005	250	U
PL2-JF04A	8 - 18	2/18/2005	500	U

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Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 1 of 2

Attachment E
Groundwater Data Gaps Investigation Data for Dissolved COCs with Cross-Sections

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Table of Contents

List of Tables

Table E-1 Screening Levels for Constituents of Concern in Site-wide Groundwater

Table E-2 Constituents of Concern Detected in Groundwater

List of Maps and Cross Sections

Vertical Profile Alignment Cross-Section A-A'

Arsenic Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Arsenic Cross-Section A-A'

Copper Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Copper Cross-Section A-A'

Lead Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Lead Cross-Section A-A'

Manganese Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Manganese Cross-Section A-A'

Mercury Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Mercury Cross-Section A-A'

Nickel Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Nickel Cross-Section A-A'

Selenium Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Selenium Cross-Section A-A'

Zinc Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Zinc Cross-Section A-A'

2,4-Dimethylphenol Concentrations Levels A, B, & C Groundwater, March 2005 Samples

2,4-Dimethylphenol Cross-Section A-A'

bis(2-Ethylhexyl)phthalate Concentrations Levels A, B, & C Groundwater, March 2005 Samples

bis(2-Ethylhexyl)phthalate Cross-Section A-A'

Aroclor 1254 Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Aroclor 1254 Cross-Section A-A'

Benzene Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Benzene Cross-Section A-A'

1,1-Dichloroethene Concentrations Levels A, B, & C Groundwater, March 2005 Samples

1,1-Dichloroethene Cross-Section A-A'

cis-1,2-Dichloroethene Concentrations Levels A, B, & C Groundwater, March 2005 Samples

cis-1,2-Dichloroethene Cross-Section A-A'

Tetrachloroethene Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Tetrachloroethene Cross-Section A-A'

1,1,2-Trichloroethane Concentrations Levels A, B, & C Groundwater, March 2005 Samples

1,1,2-Trichloroethane Cross-Section A-A'

Trichloroethene Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Trichloroethene Cross-Section A-A'

Vinyl Chloride Concentrations Levels A, B, & C Groundwater, March 2005 Samples

Vinyl Chloride Cross-Section A-A'

TPH – Gasoline Range Concentrations in Level A Groundwater, March 2005 Samples

TPH – Gasoline Range Cross-Section A-A'

TPH – Diesel Range Concentrations in Level A Groundwater, March 2005 Samples

TPH – Diesel Range Cross-Section A-A'

TPH – Motor Oil Range Concentrations in Level A Groundwater, March 2005 Samples

TPH – Motor Oil Range Cross-Section A-A'

List of Data Tables

Arsenic (Dissolved) Concentrations in Groundwater

Copper (Dissolved) Concentrations in Groundwater

Lead (Dissolved) Concentrations in Groundwater

Manganese (Dissolved) Concentrations in Groundwater

Mercury (Dissolved) Concentrations in Groundwater

Nickel (Dissolved) Concentrations in Groundwater

Selenium (Dissolved) Concentrations in Groundwater

Zinc (Dissolved) Concentrations in Groundwater

2,4-Dimethylphenol Concentrations in Groundwater

bis(2-Ethylhexyl)phthalate Concentrations in Groundwater

Aroclor 1254 Concentrations in Groundwater

Benzene Concentrations in Groundwater

1,1-Dichloroethene Concentrations in Groundwater

cis-1,2-Dichloroethene Concentrations in Groundwater

Tetrachloroethene Concentrations in Groundwater

1,1,2-Trichloroethane Concentrations in Groundwater

Trichloroethene Concentrations in Groundwater

Vinyl Chloride Concentrations in Groundwater

TPH-Diesel Range Concentrations in Groundwater

TPH-Motor Oil Range Concentrations in Groundwater

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Volume IIIb Corrective Measures Study
South Yard Area
Boeing Plant 2

Table E-1 Screening Levels for Constituents of Concern in Site-wide Groundwater

CAS Number	Constituent of Concern	Maximum Detect (µg/l)	Laboratory RL (µg/l)	Air Risk Calculation[a] (µg/l)	Air Screening Level (µg/l)	Surface Water Risk Calculation[b] (µg/l)	Surface Water Screening Level (µg/l)
Metals and Cyanide							
7440-38-2	Arsenic	1.30E+02	2.00E-01	- -	- -	***1.94E-02***	***2.00E-01***
7440-43-9	Cadmium	1.89E+02	2.00E+00	- -	- -	***8.80E+00***	***8.80E+00***
7440-50-8	Copper	1.10E+02	5.00E-01	- -	- -	***3.10E+00***	***3.10E+00***
7439-92-1	Lead	1.00E+01	1.00E+00	- -	- -	***8.10E+00***	***8.10E+00***
7439-96-5	Manganese	6.93E+03	1.00E+00	- -	- -	***1.00E+02***	***1.00E+02***
7439-97-6	Mercury	3.60E+00	2.50E-02	1.84E+02	1.84E+02	***2.50E-02***	***2.50E-02***
7440-02-0	Nickel (soluble salts)	3.40E+02	5.00E-01	- -	- -	***8.20E+00***	***8.20E+00***
7782-49-2	Selenium	3.00E+02	5.00E+01	- -	- -	***7.10E+01***	***7.10E+01***
7440-22-4	Silver	7.60E+01	5.00E-01	- -	- -	***1.90E+00***	***1.90E+00***
7440-28-0	Thallium (soluble salts)	7.00E+01	2.00E-01	- -	- -	***4.70E-01***	***4.70E-01***
7440-66-6	Zinc	2.34E+03	6.00E+00	- -	- -	***8.10E+01***	***8.10E+01***
57-12-5	Cyanide	5.80E+02	5.00E+00	- -	- -	***1.00E+00***	***5.00E+00***
Semivolatile Organic Compounds (SVOCs) and Polychlorinated Biphenyls (PCBs)							
56-55-3	Benzo(a)anthracene	3.30E+00	1.00E-01	- -	- -	***5.86E-03***	***1.00E-01***
205-99-2	Benzo(b)fluoranthene	8.50E-01	1.00E-01	- -	- -	***5.86E-03***	***1.00E-01***
207-08-9	Benzo(k)fluoranthene	2.80E-01	1.00E-01	- -	- -	***5.86E-03***	***1.00E-01***
50-32-8	Benzo(a)pyrene	1.50E+00	1.00E-01	- -	- -	***5.86E-03***	***1.00E-01***
218-01-9	Chrysene	6.20E+00	1.00E-01	- -	- -	***5.86E-03***	***1.00E-01***
53-70-3	Dibenz(a,h)anthracene	1.90E-01	1.00E-01	- -	- -	***5.86E-03***	***1.00E-01***
105-67-9	2,4-Dimethylphenol	5.20E+02	3.00E+00	- -	- -	***2.73E+02***	***2.73E+02***
117-81-7	bis(2-Ethylhexyl)phthalate	1.30E+01	3.00E+00	- -	- -	***7.05E-01***	***3.00E+00***
193-39-5	Indeno(1,2,3-cd)pyrene	2.90E-01	1.00E-01	- -	- -	***5.86E-03***	***1.00E-01***
-	Aroclor 1016/1242	1.10E-01	1.00E-02	- -	- -	***6.40E-05***	***1.00E-02***
11097-69-1	Aroclor 1254	1.90E+00	1.00E-02	- -	- -	***6.40E-05***	***1.00E-02***
11097-69-1	Aroclor 1260	8.90E+00	1.00E-02	- -	- -	***6.40E-05***	***1.00E-02***
-	Total PCBs	8.90E+00	1.00E-02	- -	- -	***6.40E-05***	***1.00E-02***

Table E-1 Screening Levels for Constituents of Concern in Site-wide Groundwater

CAS Number	Constituent of Concern	Maximum Detect (µg/l)	Laboratory RL (µg/l)	Air Risk Calculation[a] (µg/l)	Air Screening Level (µg/l)	Surface Water Risk Calculation[b] (µg/l)	Surface Water Screening Level (µg/l)
Volatile Organic Compounds (VOCs)							
71-43-2	Benzene	6.20E+03	2.00E-01	***1.40E+03***	***1.40E+03***	***4.48E+00***	***4.48E+00***
56-23-5	Carbon Tetrachloride	2.20E+00	2.00E-01	1.52E+02	1.52E+02	***5.26E-01***	***5.26E-01***
74-87-3	Chloromethane	4.80E+01	2.00E-01	2.44E+03	2.44E+03	***2.63E+01***	***2.63E+01***
107-06-2	1,2-Dichloroethane	2.30E+01	2.00E-01	1.78E+03	1.78E+03	***1.17E+01***	***1.17E+01***
75-35-4	1,1-Dichloroethene	5.00E+02	2.00E-01	***4.23E+01***	***4.23E+01***	***3.82E-01***	***3.82E-01***
156-59-2	cis-1,2-Dichloroethene	4.60E+05	2.00E-01	***1.51E+04***	***1.51E+04***	***1.55E+03***	***1.55E+03***
100-41-4	Ethylbenzene	2.30E+03	2.00E-01	9.50E+03	9.50E+03	***2.10E+03***	***2.10E+03***
75-09-2	Methylene Chloride	5.10E+02	3.00E-01	4.46E+04	4.46E+04	***1.90E+02***	***1.90E+02***
127-18-4	Tetrachloroethene	3.60E+01	2.00E-01	1.52E+03	1.52E+03	***8.22E-01***	***8.22E-01***
79-00-5	1,1,2-Trichloroethane	4.40E+02	2.00E-01	3.67E+03	3.67E+03	***5.00E+00***	***5.00E+00***
79-01-6	Trichloroethene	5.70E+05	2.00E-01	***6.20E+01***	***6.20E+01***	***3.02E-01***	***3.02E-01***
75-01-4	Vinyl Chloride	9.80E+04	2.00E-01	***3.71E+02***	***3.71E+02***	***7.31E-01***	***7.31E-01***
Total Petroleum Hydrocarbons (TPH)							
-	TPH-D	8.90E+03	5.00E+02	5.00E+02			
-	TPH-G	6.50E+04	2.50E+02	8.00E+02			
-	TPH-O	3.00E+03	5.00E+02	5.00E+02			

Notes

All maximum detections for metals represent dissolved metals.
Screening levels adjust risk calculations up to RL where applicable.

Bolded — **Bolded** risk based and screening level concentrations are below maximum detect.

[a] Lowest groundwater concentration protective of indoor air, outdoor air, and trenching.

[b] Lowest groundwater concentration protective of human ingestion of aquatic organisms and protection of aquatic organisms.

RL — Reporting Limit as detailed in Analytical Resources Inc. Laboratory Quality Assurance Plan, Version 11-022, dated 5/17/04 (generally equivalent to the practical quantitation limit in a clean matrix).

TPH — Total Petroleum Hydrocarbons

- - — Not calculated.

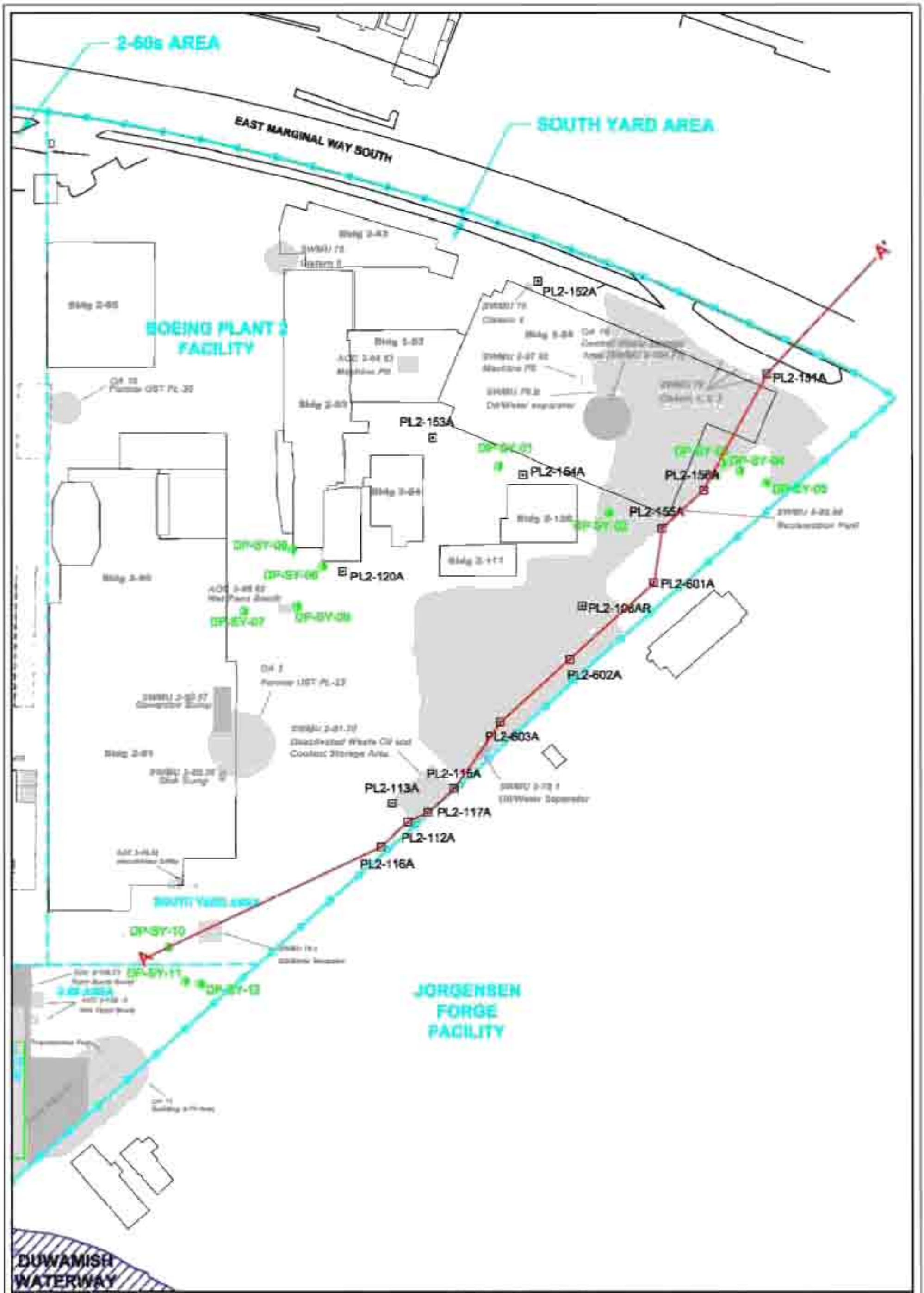
Volume IIIb Corrective Measures Study
South Yard Area
Boeing Plant 2

Table E-2: Data Gap Investigation Results for Groundwater Constituents of Concern

CAS Number	Constituent of Concern	Maximum Detect (µg/l)	Samples Analyzed	Detects	Samples above Air Screening Level	Samples above Surface Water Screening Level
Metals						
7440-38-2	Arsenic	9.98E+01	45	40	- -	40
7440-50-8	Copper	1.30E+00	45	10	- -	0
7439-92-1	Lead	ND	45	ND	- -	0
7439-96-5	Manganese	6.93E+03	45	45	- -	44
7439-97-6	Mercury	6.04E-02	45	1	0	1
7440-02-0	Nickel (soluble salts)	7.00E+00	45	45	- -	0
7782-49-2	Selenium	ND	45	0	- -	0
7440-66-6	Zinc	7.17E+02	45	15	--	2
Semivolatile Organic Compounds (SVOCs) and Polychlorinated Biphenyls (PCBs)						
105-67-9	2,4-Dimethylphenol	9.70E+01	23	2	- -	0
117-81-7	bis(2-Ethylhexyl)phthalate	ND	23	0	- -	0
11097-69-1	Aroclor 1254	ND	28	0	- -	0
	Total PCBs	ND	28	0	- -	0
Volatile Organic Compounds (VOCs)						
71-43-2	Benzene	5.70E+00	45	9	0	2
75-35-4	1,1-Dichloroethene	1.90E+00	45	5	0	3
156-59-2	cis-1,2-Dichloroethene	8.30E+01	45	24	0	0
127-18-4	Tetrachloroethene	3.80E+00	45	3	0	2
79-00-5	1,1,2-Trichloroethane	ND	45	0	0	0
79-01-6	Trichloroethene	1.10E+02	45	14	1	13
75-01-4	Vinyl Chloride	3.10E+01	45	25	0	24
Total Petroleum Hydrocarbons						
-	TPH - Diesel Range	8.90E+03	7	5	2	
-	TPH - Motor Oil Range	1.30E+03	7	1	1	

Notes:

All maximum detections for metals represent dissolved metals.



KEY

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS
- SOUTH YARD DIRECT PUSH PROBE LOCATION
- PROPERTY BOUNDARY
- AREA BOUNDARY
- CROSS-SECTION A - A'

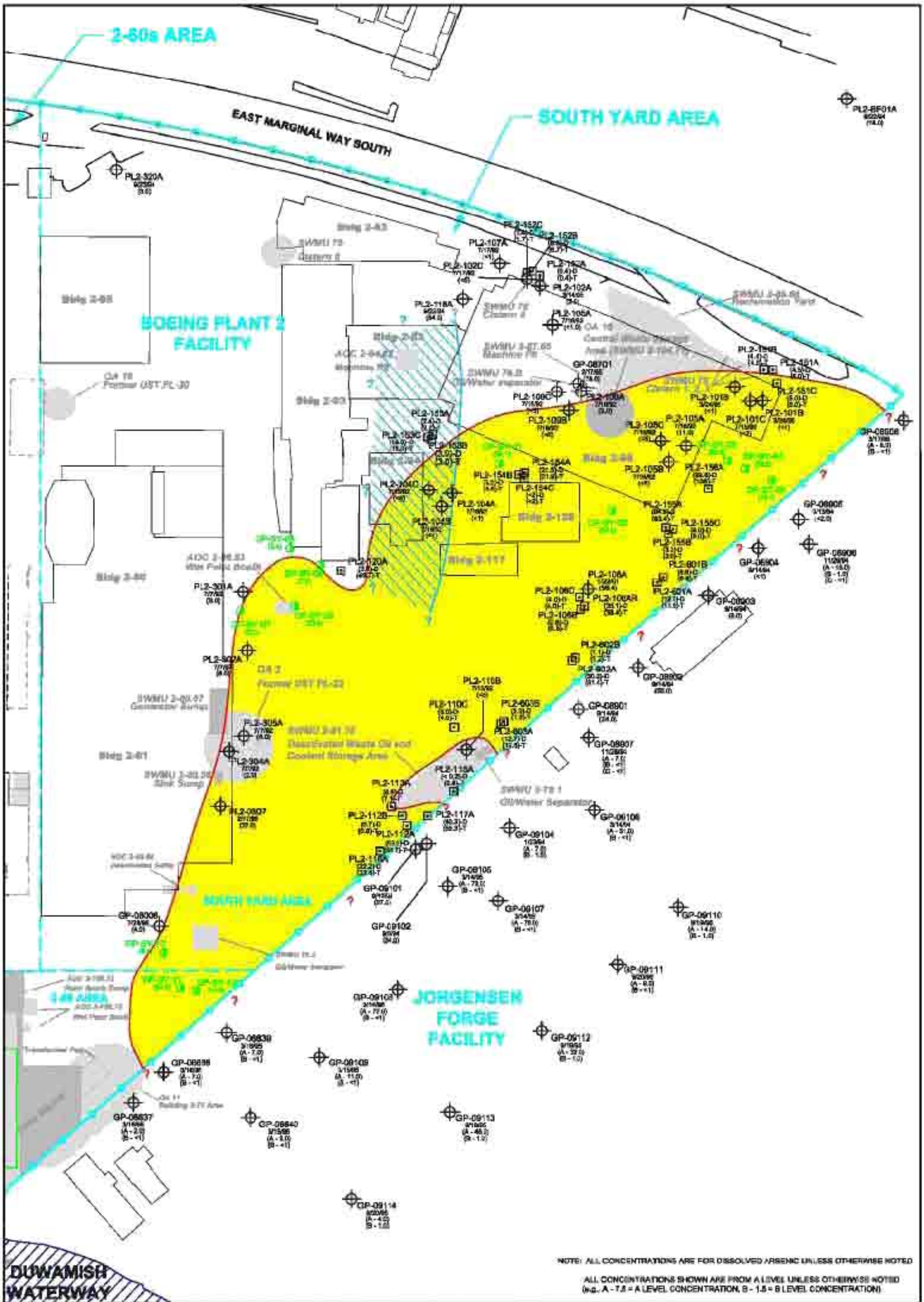
SCALE: 1" = 100'

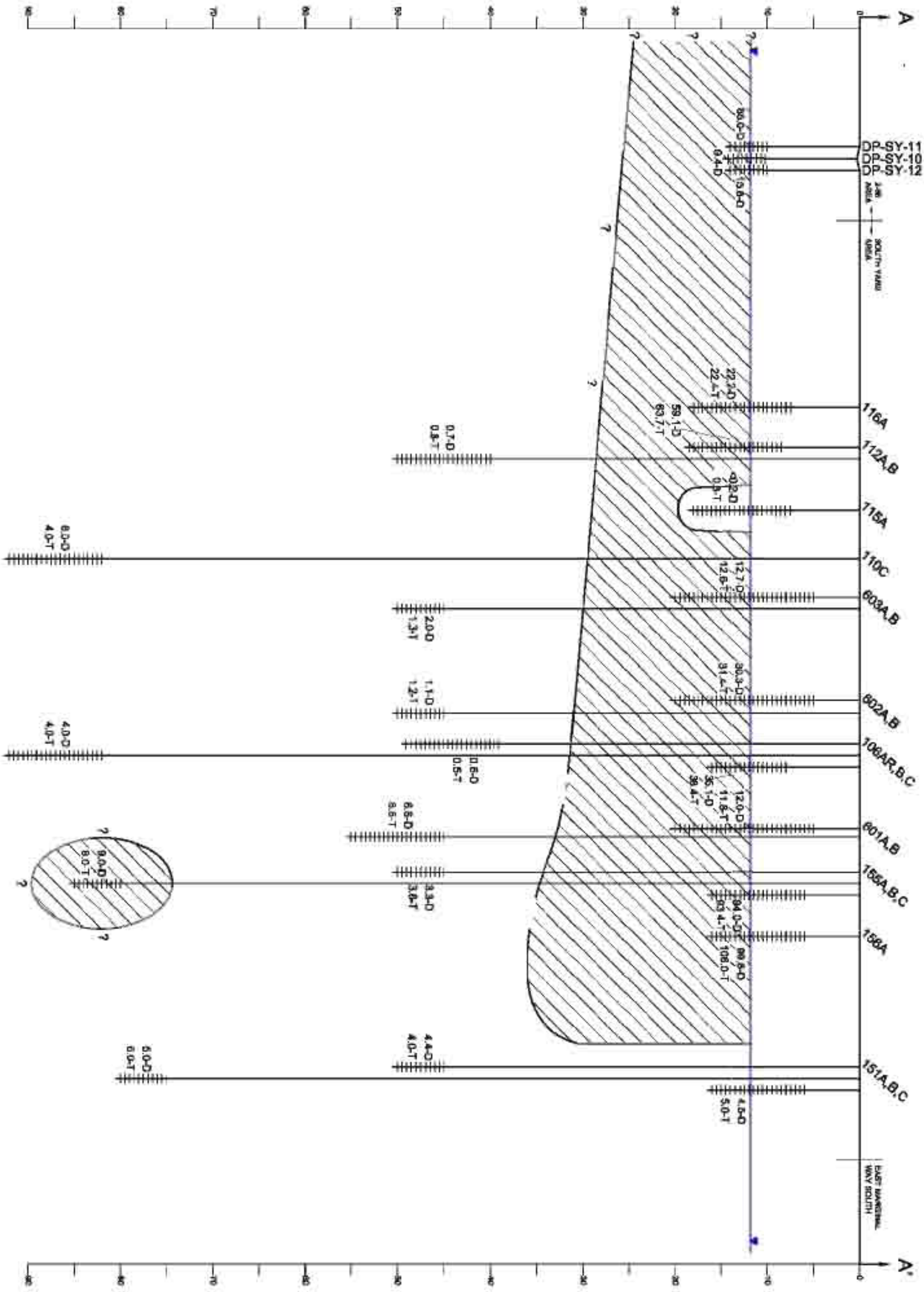
ENVIRONMENTAL PARTNERS INC

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7125 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

BOEING PLANT 2 SOUTH YARD AREA
VERTICAL PROFILE ALIGNMENT
CROSS-SECTION A - A'

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	TJA	DCK	[illegible]


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED ARSENIC UNLESS OTHERWISE NOTED
ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION
PROPERTY BOUNDARY
AREA BOUNDARY
AREA OF A LEVEL GROUNDWATER ABOVE BACKGROUND LEVEL
AREA OF C LEVEL GROUNDWATER ABOVE BACKGROUND LEVEL
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83.
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
PROJECT: BOEING PLANT 2
PREPARED FOR: THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
ARSENIC CONCENTRATIONS (µg/L)
LEVELS A, B, & C GROUNDWATER
MARCH 2006 SAMPLES
BACKGROUND LEVEL (2006): 8.0 µg/L
LOCATION: 7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON
SHEET: 1 of 1
DRAWN BY: HDC
REVIEWED BY: DCK
DATE: 03/13/07



KEY:

4.9-D / 7.0-T - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L) D = DISSOLVED T = TOTAL

- ESTIMATED AREA ABOVE CONSTITUENT BACKGROUND LEVEL (2006)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

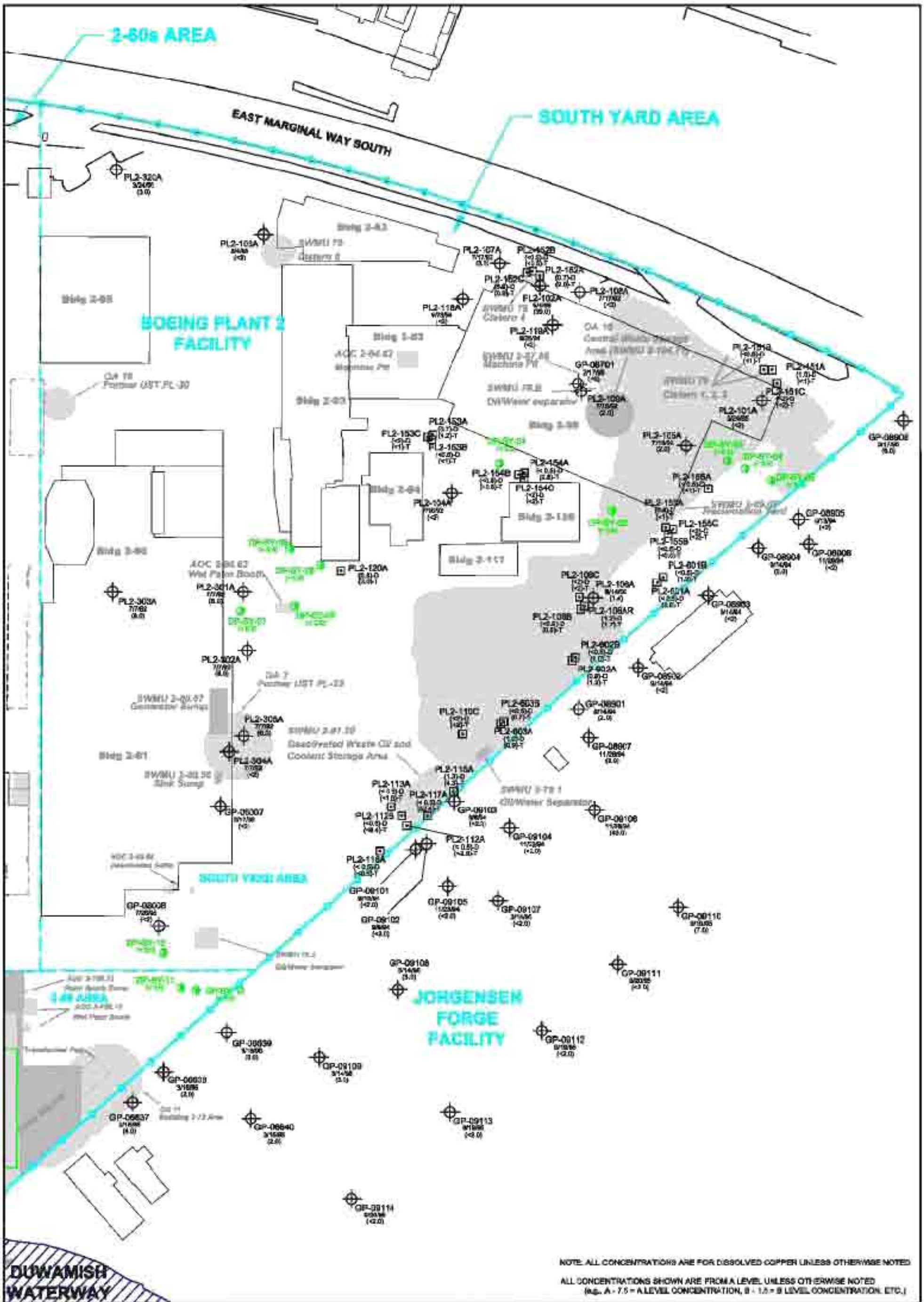
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
ARSENIC IN GROUNDWATER
CROSS-SECTION A - A'
BACKGROUND LEVEL (2006): 8.0 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 03/15/07



NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED COPPER UNLESS OTHERWISE NOTED

ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION, ETC.)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L) D = DISSOLVED, T = TOTAL
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY

MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83.

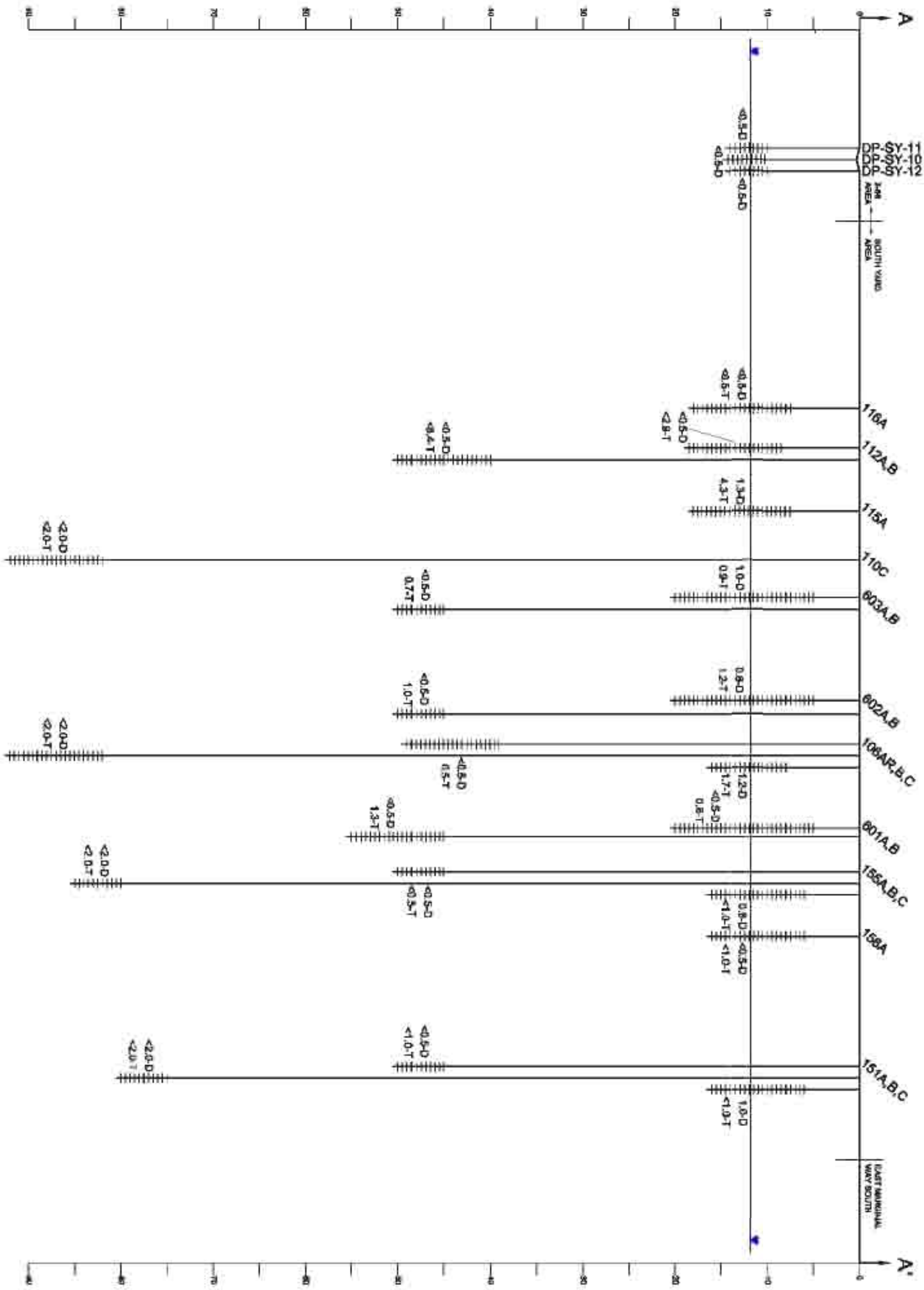
SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
COPPER CONCENTRATIONS (µg/L)
LEVELS A, B AND C GROUNDWATER
MARCH 2006 SAMPLES
BACKGROUND LEVEL (2006): 8.0 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCK	03/13/07



KEY:

4.0-D / 7.0-T - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)
D = DISSOLVED T = TOTAL

- ESTIMATED AREA ABOVE CONSTITUENT BACKGROUND LEVEL (2006)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

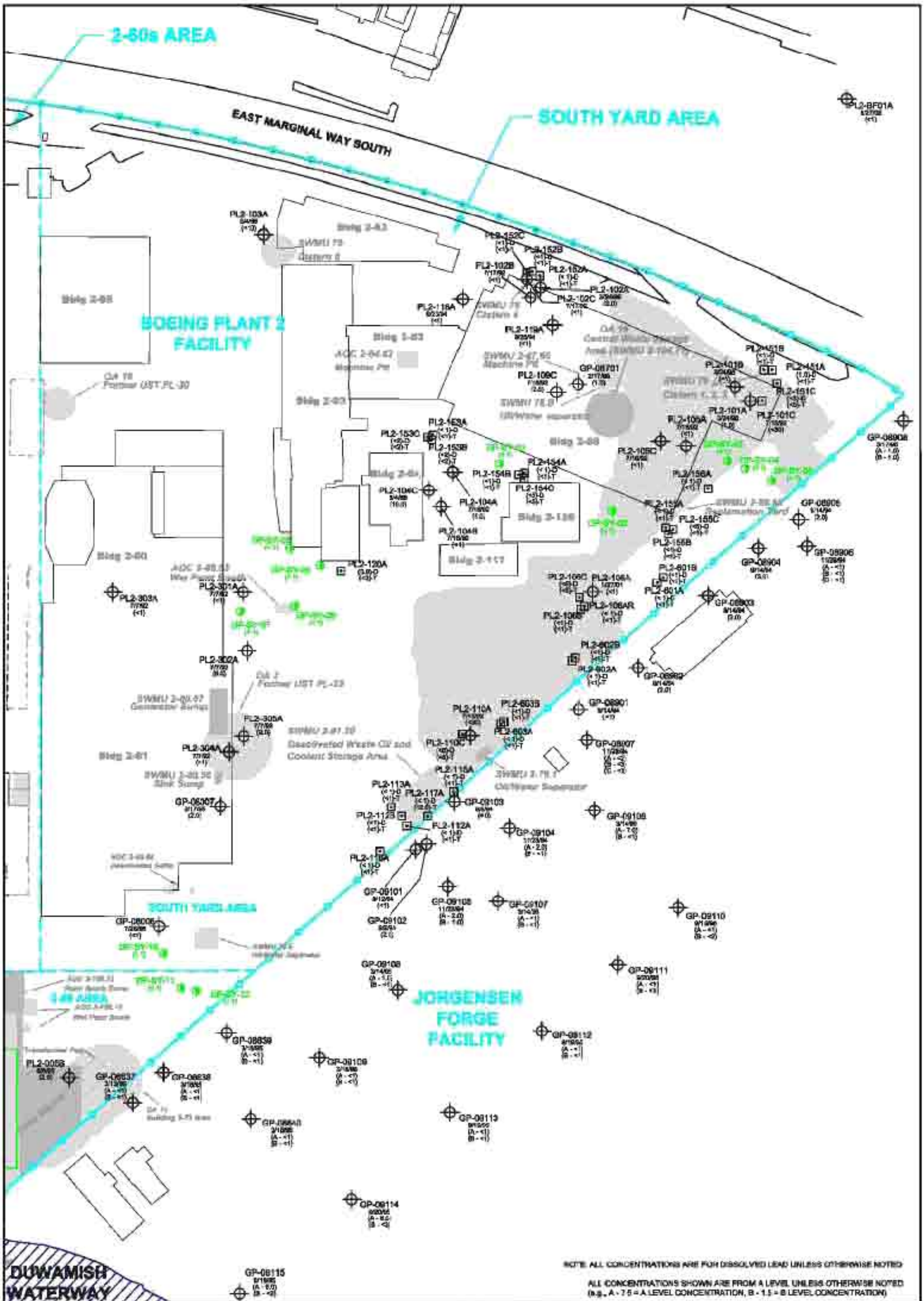
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
COPPER IN GROUNDWATER
CROSS-SECTION A - A'
BACKGROUND LEVEL (2006): 8.0 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 03/14/07



NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED LEAD UNLESS OTHERWISE NOTED

ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L) D = DISSOLVED, T = TOTAL
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY

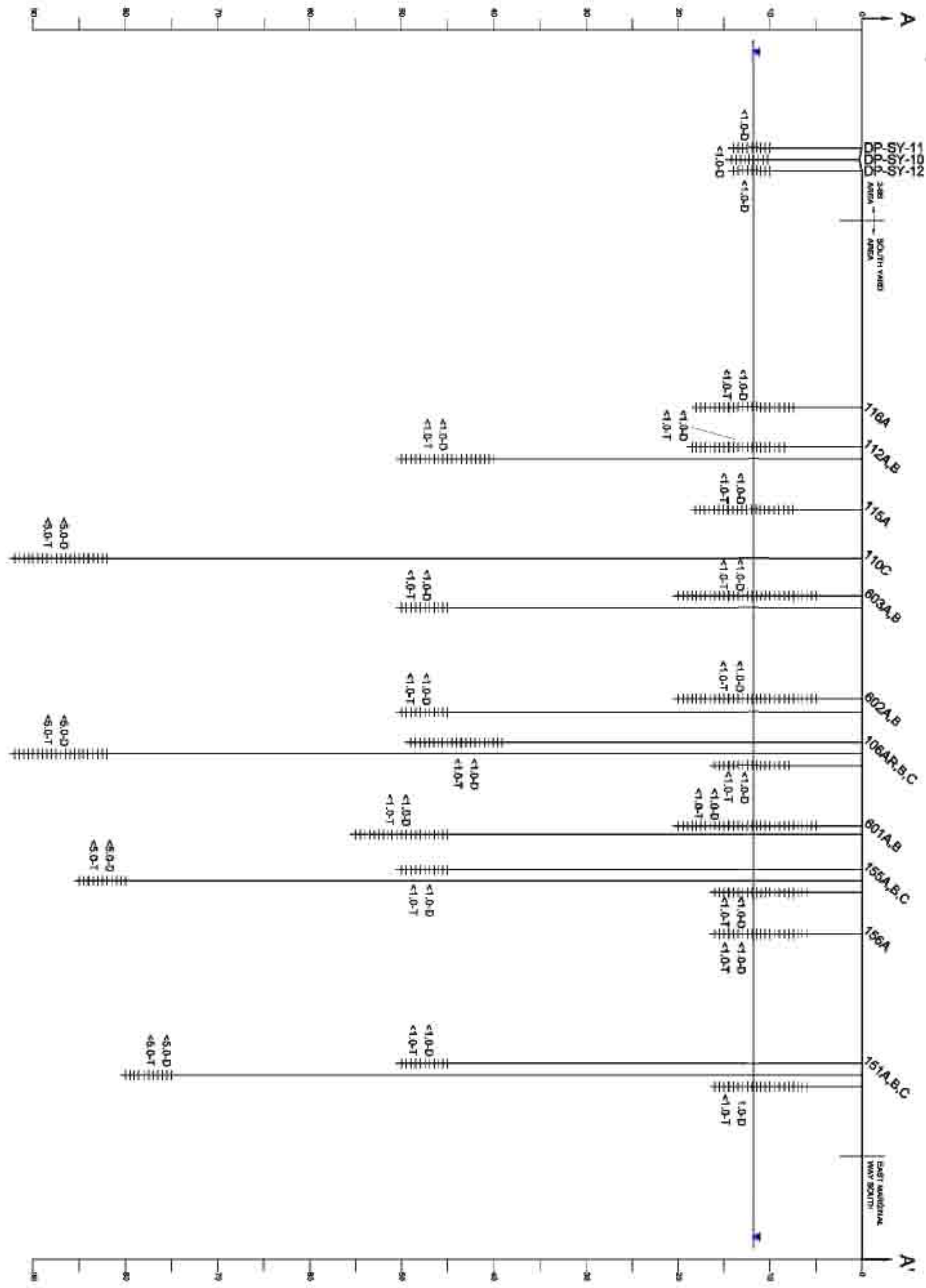
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83

SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
LEAD CONCENTRATIONS (µg/L)
LEVELS A, B AND C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 5.1 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY HDC	REVIEWED BY DCK	DATE 03/13/07



KEY:

4.0-D — NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)
7.0-T — D = DISSOLVED T = TOTAL

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

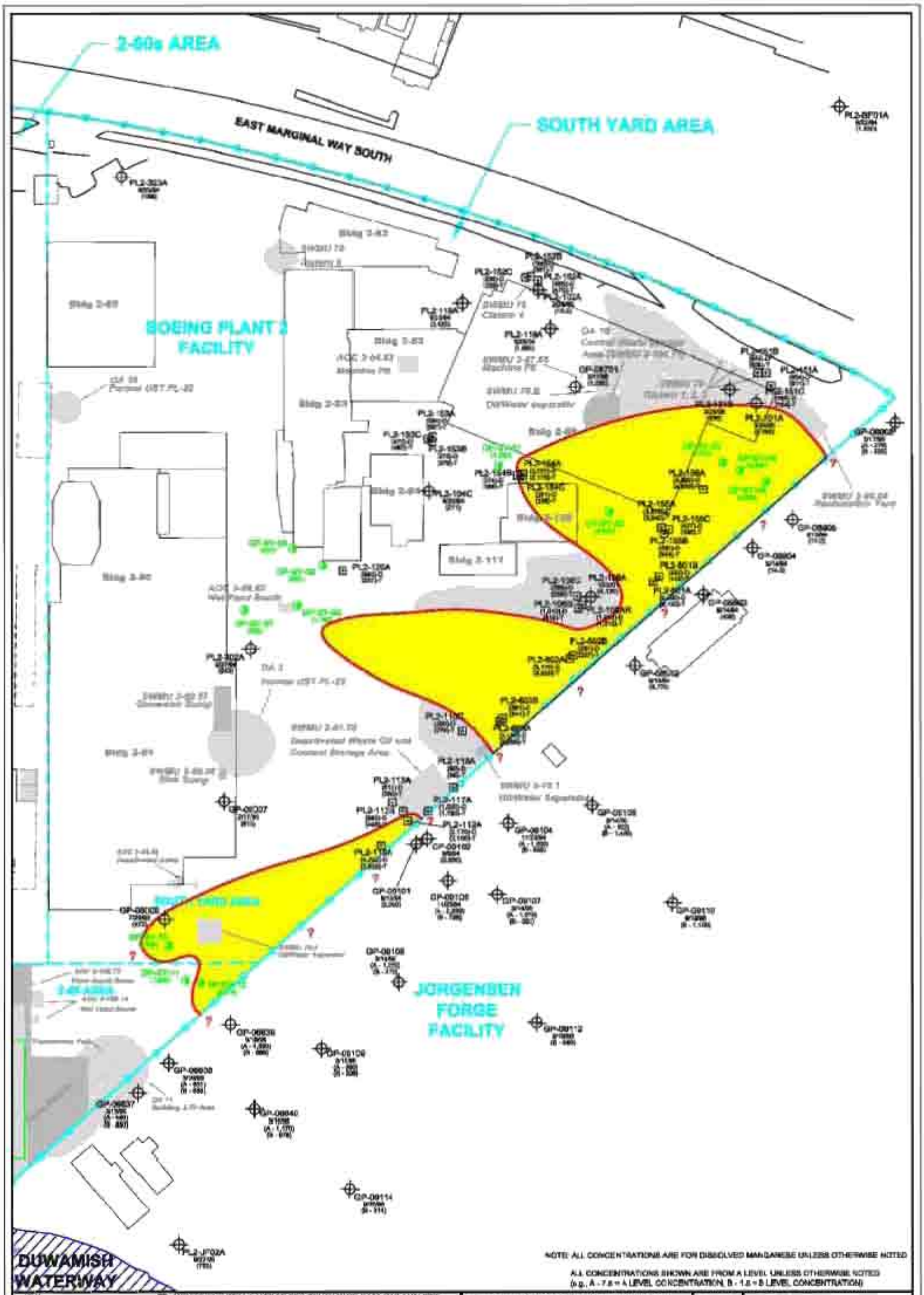
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
LEAD
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 8.1 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07



NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED MANGANESE UNLESS OTHERWISE NOTED

ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.8 = A LEVEL CONCENTRATION, B - 1.8 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L) D = DISSOLVED, T = TOTAL
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY
- AREA OF A-LEVEL GROUNDWATER ABOVE BACKGROUND LEVEL

MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83

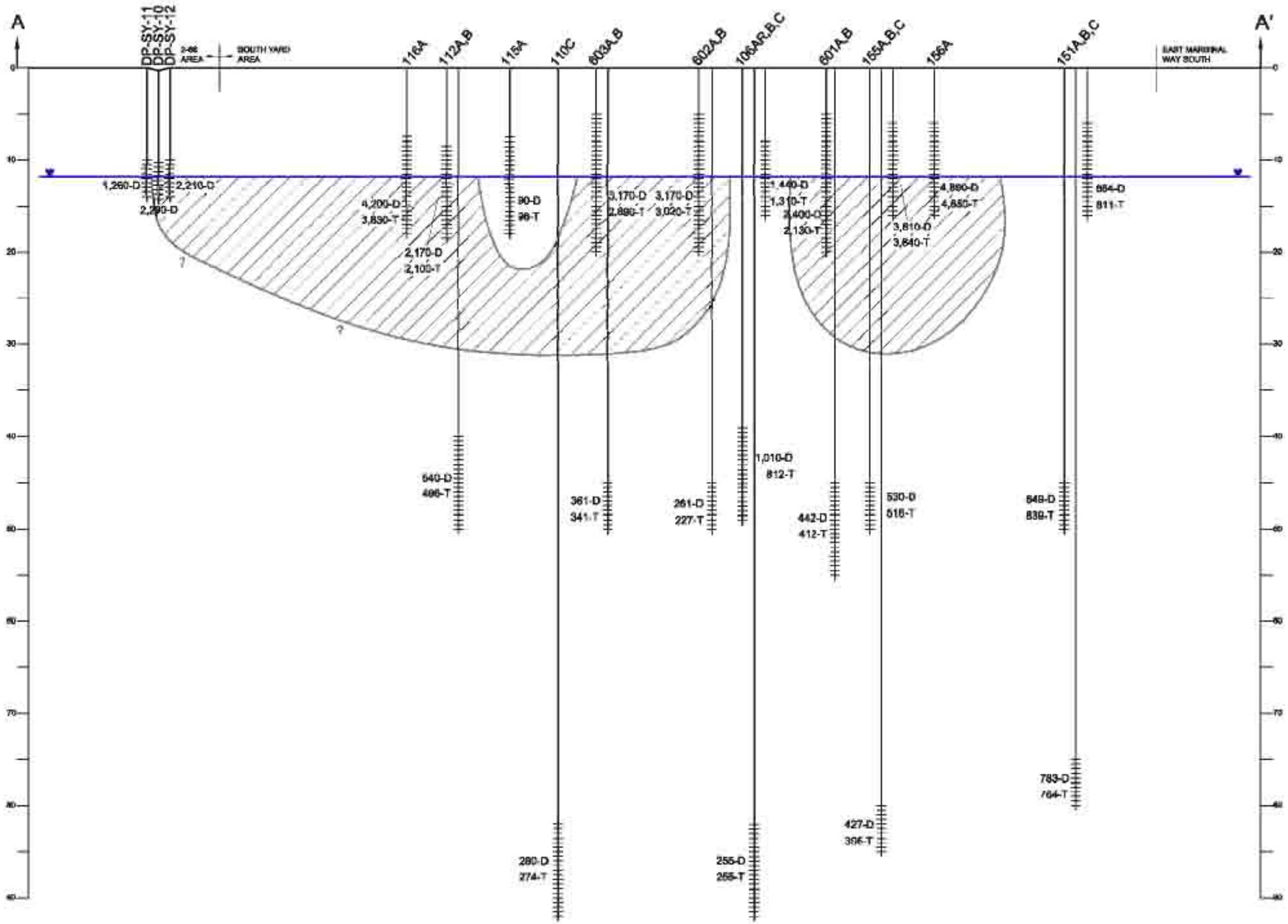
SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
291 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
MANGANESE CONCENTRATIONS (µg/L)
LEVELS A, B, & C GROUNDWATER
MARCH 2005 SAMPLES
BACKGROUND LEVEL (2000) 2,000 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DOK	03/13/07



PROJECT: BOEING PLANT 2

PREPARED FOR: THE BOEING COMPANY

LOCATION: 7735 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET: 1 of 1

DRAWN BY: mDC

REVIEWED BY: DCK

DATE: 03/16/07

ENVIRONMENTAL PARTNERS INC

295 NE Gilman Blvd., Suite 201
Issaquah, Washington 98027

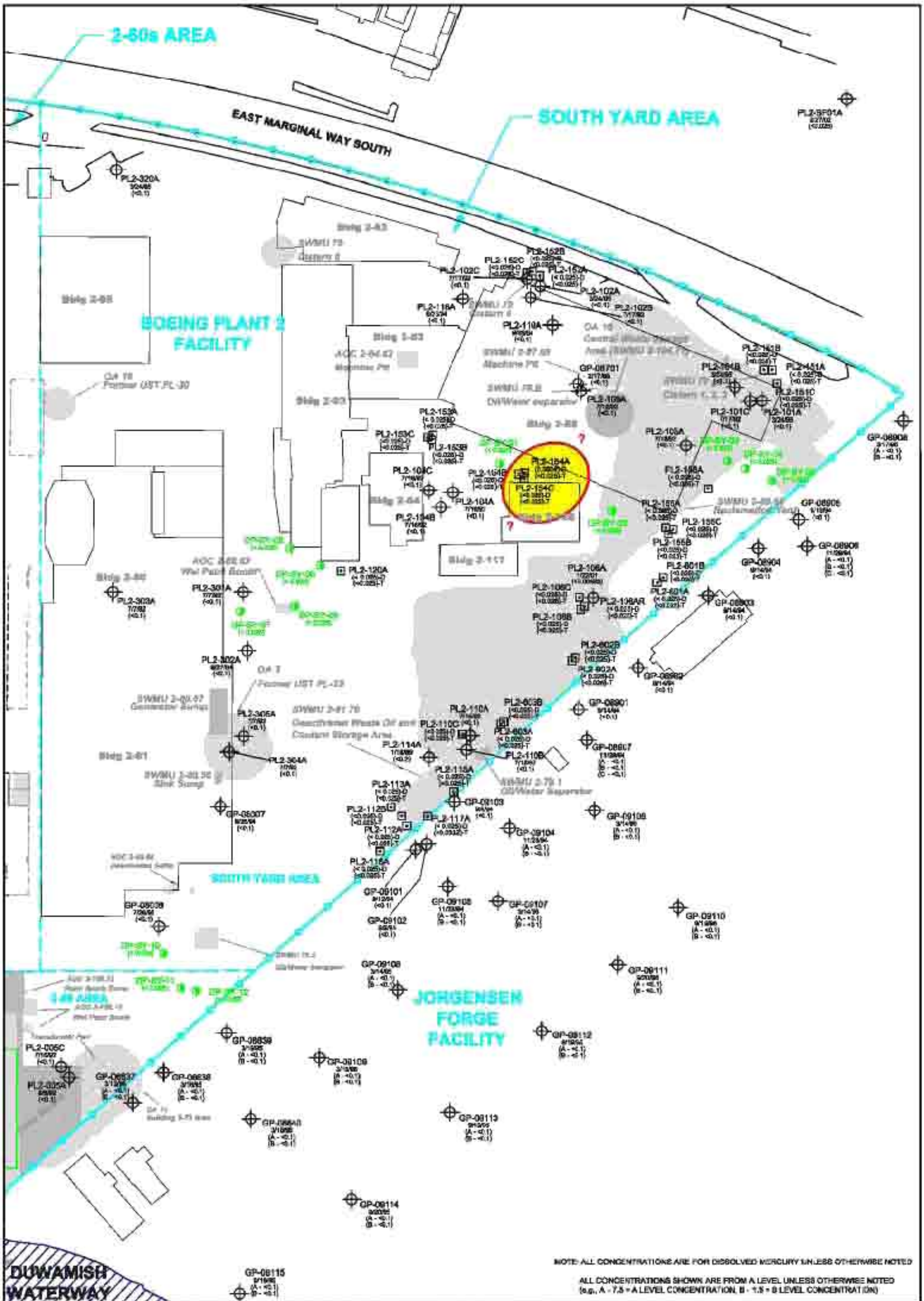
SOUTH YARD AREA VERTICAL PROFILE
MANGANESE
CROSS-SECTION A - A'
BACKGROUND LEVEL (2000): 2,000 µg/L

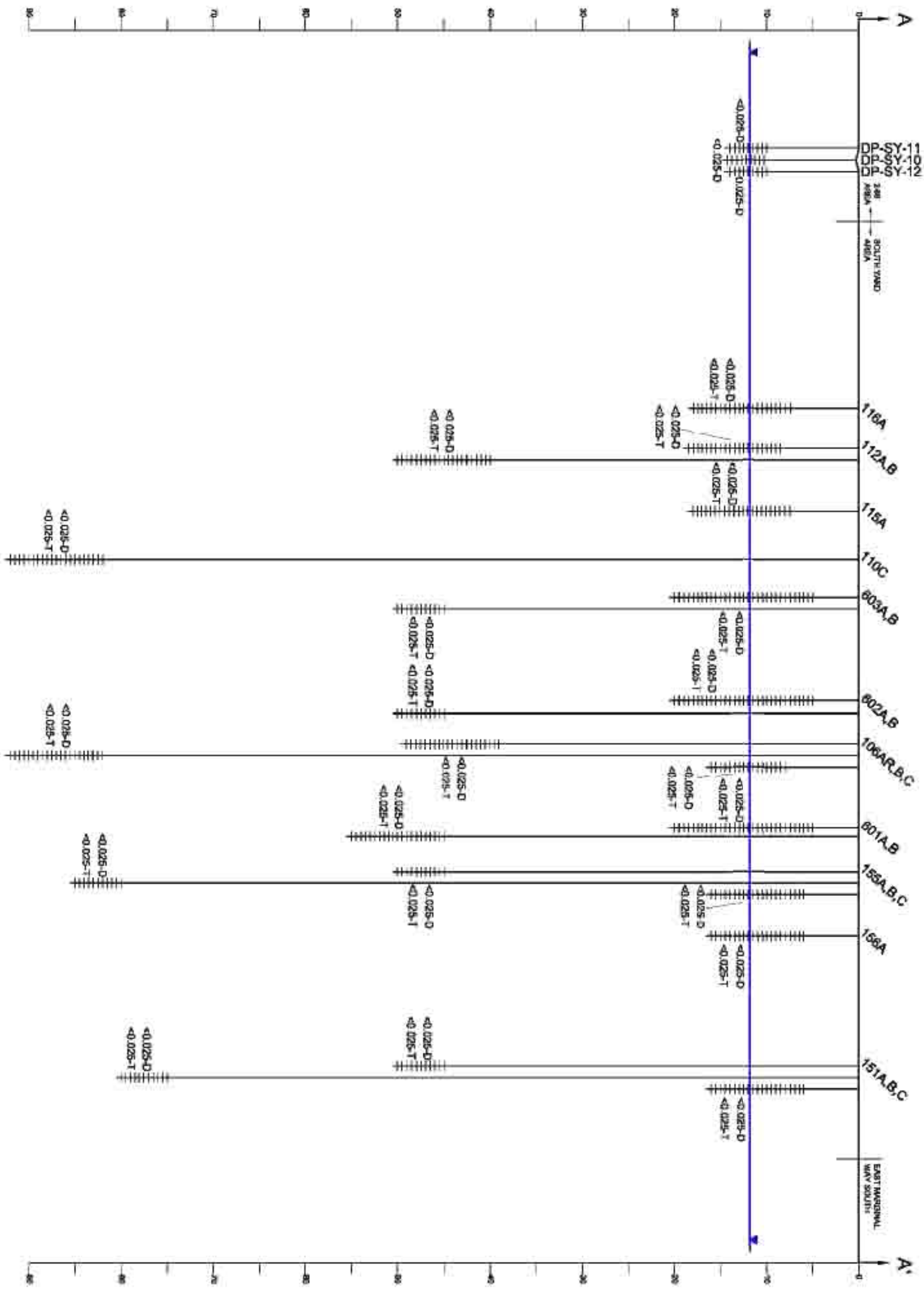
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

KEY:

- 8.0-D — NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)
  D = DISSOLVED; T = TOTAL
- ESTIMATED AREA ABOVE CONSTITUENT BACKGROUND LEVEL (2000)
- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
PL2-320A
PL2-102C
PL2-152C
PL2-152A
PL2-102A
PL2-118A
PL2-110A
PL2-153A
PL2-153C
PL2-153B
PL2-104C
PL2-104A
PL2-154A
PL2-154C
PL2-155A
PL2-155C
PL2-155B
PL2-101C
PL2-101A
PL2-105A
PL2-106A
PL2-120A
PL2-301A
PL2-303A
PL2-302A
PL2-305A
PL2-304A
PL2-114A
PL2-113A
PL2-112A
PL2-116A
PL2-117A
PL2-110B
PL2-603A
PL2-603B
PL2-602B
PL2-602A
PL2-601B
PL2-601A
PL2-005C
PL2-005A
GP-08701
GP-08906
GP-08904
GP-08903
GP-08902
GP-08901
GP-08907
GP-09103
GP-09104
GP-09106
GP-09101
GP-09102
GP-09108
GP-09107
GP-09110
GP-09111
GP-09112
GP-09113
GP-09114
GP-09115
GP-08838
GP-08837
GP-08839
GP-08007
GP-08008
NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED MERCURY UNLESS OTHERWISE NOTED
ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRAT (ON)
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L) D – DISSOLVED; T – TOTAL
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
AREA OF A-LEVEL GROUNDWATER ABOVE SCREENING LEVEL
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
PROJECT: BOEING PLANT 2
PREPARED FOR: THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
MERCURY CONCENTRATIONS (µg/L)
LEVELS A, B, & C GROUNDWATER
MARCH 2006 SAMPLES
SCREENING LEVEL (2004): 0.025 µg/L
LOCATION: 7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON
SHEET: 1 of 1
DRAWN BY: HDC
REVIEWED BY: DCK
DATE: 03/13/07



KEY:

4.0-D
7.0-T
- NUMBER BELOW SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L) D = DISSOLVED T = TOTAL

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

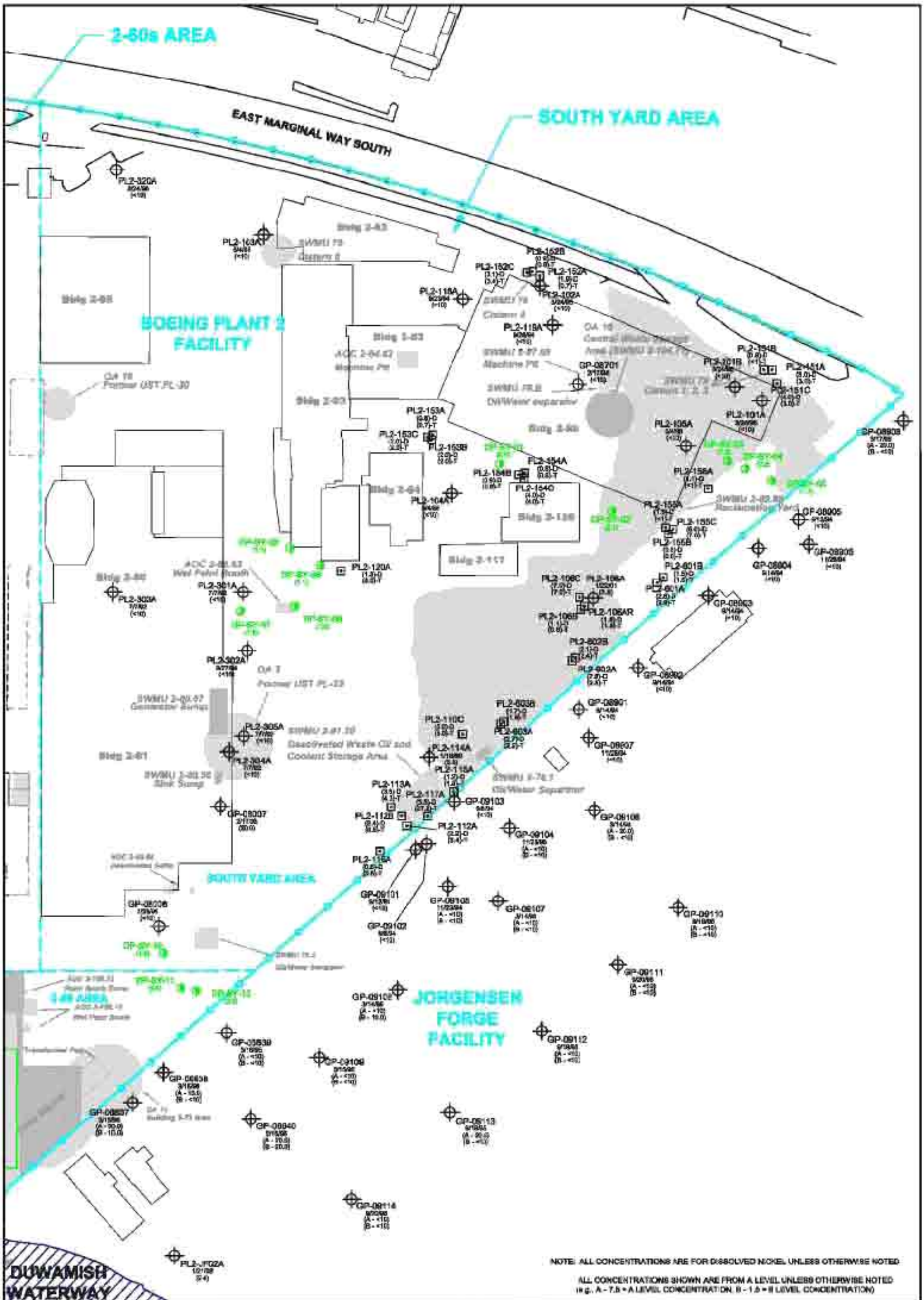
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

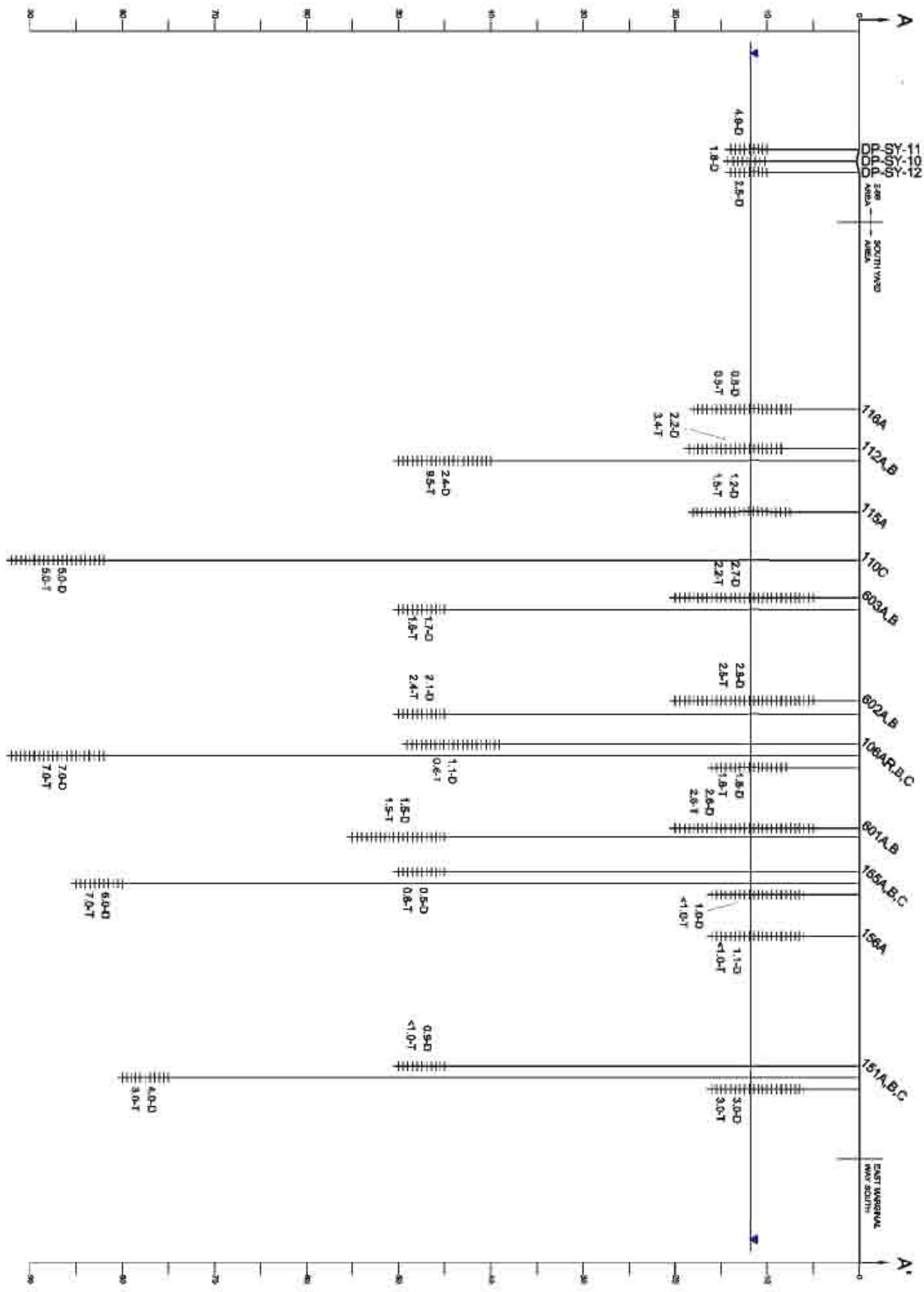
SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
MERCURY
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 0.025 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
PL2-320A
PL2-163A
PL2-152C
PL2-152A
PL2-118A
PL2-119A
GP-08701
PL2-154B
PL2-151A
PL2-151C
PL2-101A
PL2-153A
PL2-153C
PL2-153B
PL2-154A
PL2-154B
PL2-154C
PL2-104A
PL2-156A
PL2-155A
PL2-155C
PL2-155B
GP-08905
GP-08906
GP-08904
GP-08903
GP-08902
GP-08901
GP-08907
PL2-120A
PL2-301A
PL2-303A
PL2-302A
PL2-305A
PL2-304A
GP-08907
PL2-110C
PL2-114A
PL2-115A
PL2-113A
PL2-117A
GP-09103
PL2-112B
PL2-112A
GP-09104
GP-09106
PL2-116A
GP-09101
GP-09105
GP-09107
GP-09102
GP-09110
GP-09111
GP-09112
GP-09108
GP-09113
GP-09114
PL2-JFG2A
Bldg 2-63
Bldg 2-65
Bldg 2-63
Bldg 2-64
Bldg 2-136
Bldg 2-117
Bldg 2-60
Bldg 2-61
Bldg 2-61
Deactivated Waste Oil and Coolant Storage Area
Oil/Water separator
Machine Pit
Oil/Water separator
Central Waste Storage Area
Footway LIST PL-30
Footway LIST PL-23
Generator Storage
Sink Sump
Wet Paint Booth
Reclamation Yard
Building 2-75 area
NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED NICKEL UNLESS OTHERWISE NOTED
ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS
(CONSTITUENT CONCENTRATION, µg/L) D = DISSOLVED, T = TOTAL
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS
(CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION
(CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83.
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
NICKEL CONCENTRATIONS (µg/L)
LEVELS A, B, & C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 9.2 µg/L
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
HDC
REVIEWED BY
DCK
DATE
03/13/07



KEY:

4.0-D / 7.0-T · NUMBER BESIDE SCREENED INTERVAL INDICATES GROUNDWATER CONCENTRATION IN MICROGRAMS/LITER (µg/L) D = DISSOLVED T = TOTAL

· ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

· APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

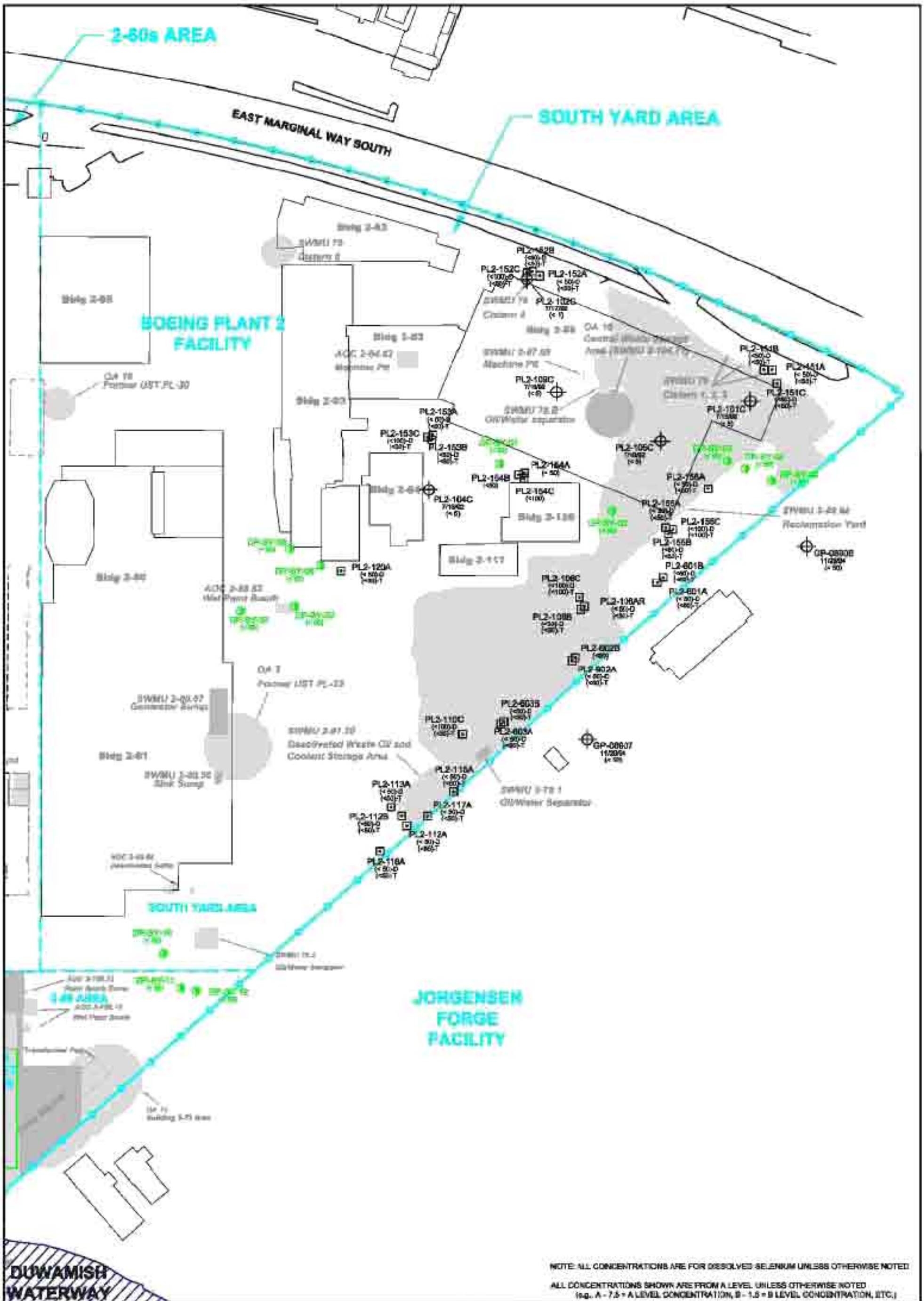
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

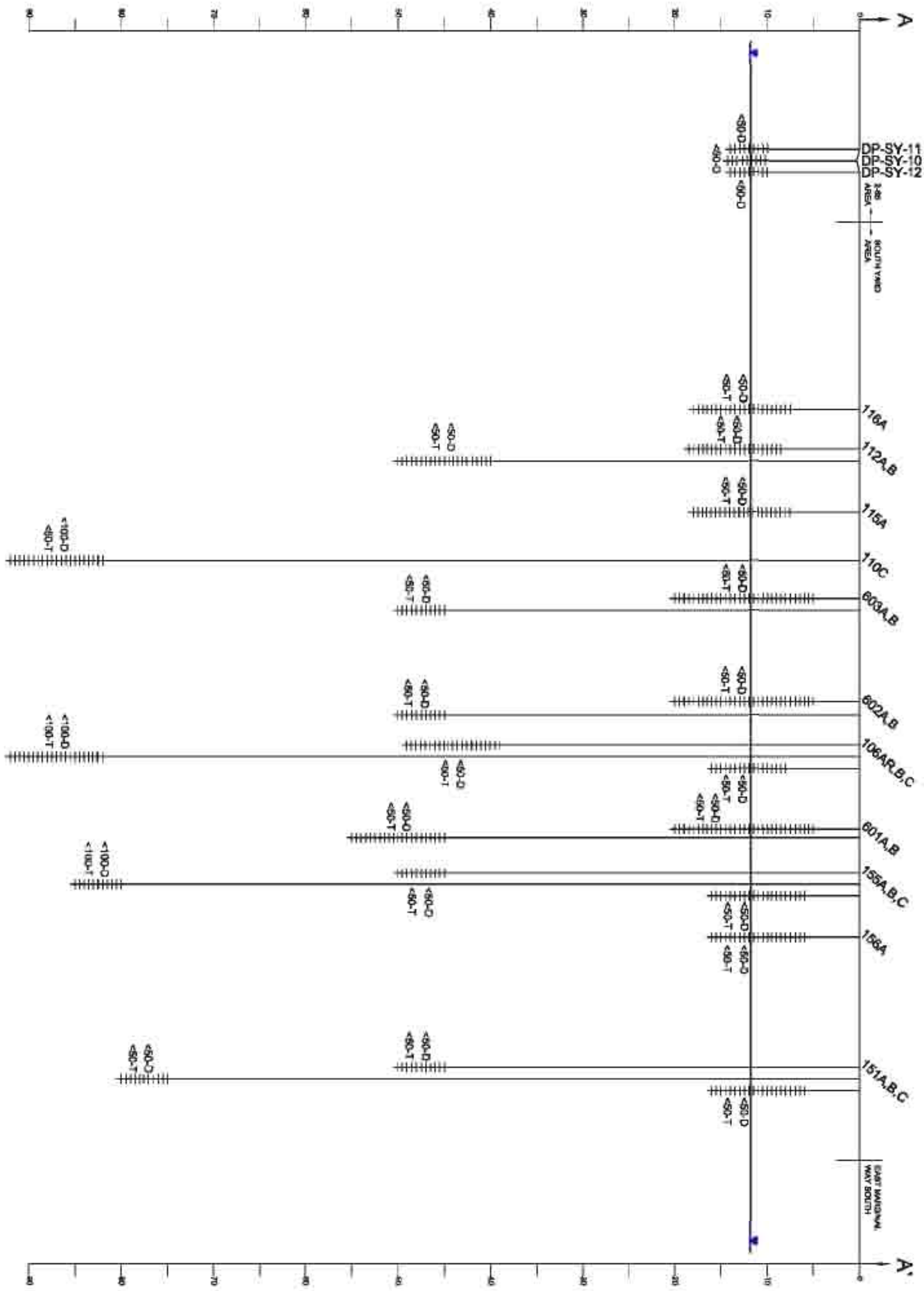
SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
NICKEL
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 8.2 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
SOUTH YARD AREA
PL2-152B
PL2-152C
PL2-152A
PL2-102G
PL2-151B
PL2-151A
PL2-151C
PL2-101C
PL2-109C
PL2-153A
PL2-153C
PL2-153B
PL2-105C
PL2-154A
PL2-154B
PL2-154C
PL2-104C
PL2-155A
PL2-155C
PL2-155B
PL2-129A
PL2-601B
PL2-601A
PL2-106C
PL2-106AR
PL2-106B
PL2-602B
PL2-602A
PL2-603B
PL2-603A
PL2-110C
PL2-115A
PL2-113A
PL2-117A
PL2-112B
PL2-112A
PL2-116A
GP-08607
NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED SELENIUM UNLESS OTHERWISE NOTED
ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION, ETC.)
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS
(CONSTITUENT CONCENTRATION, µg/L) D = DISSOLVED, T = TOTAL
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS
(CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION
(CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83.
N
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
SELENIUM CONCENTRATIONS (µg/L)
LEVELS A, B, & C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 71.0 µg/L
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
HDC
REVIEWED BY
DCK
DATE



KEY:

4.3-D / 7.3-T - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L) D = DISSOLVED T = TOTAL

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

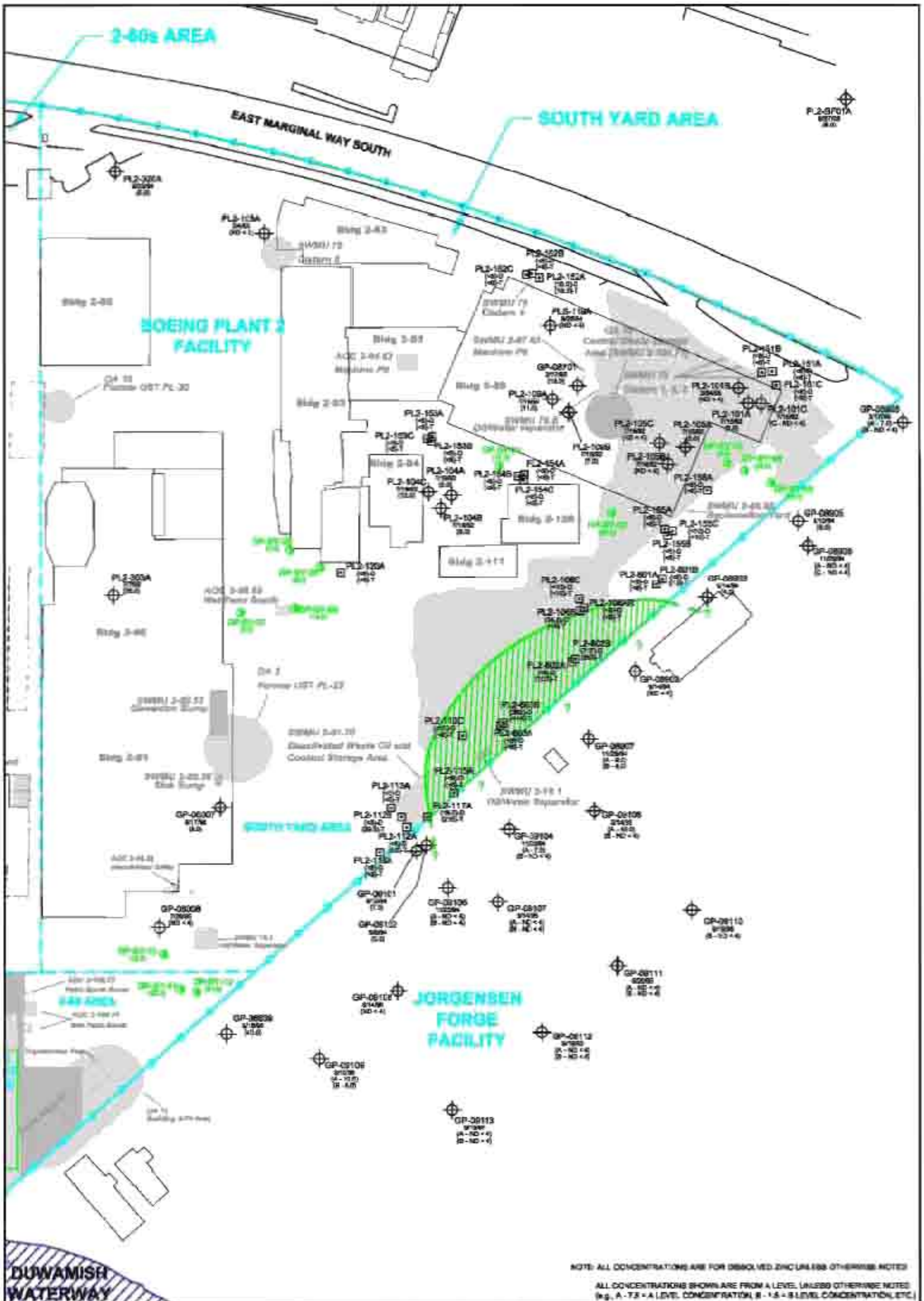
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

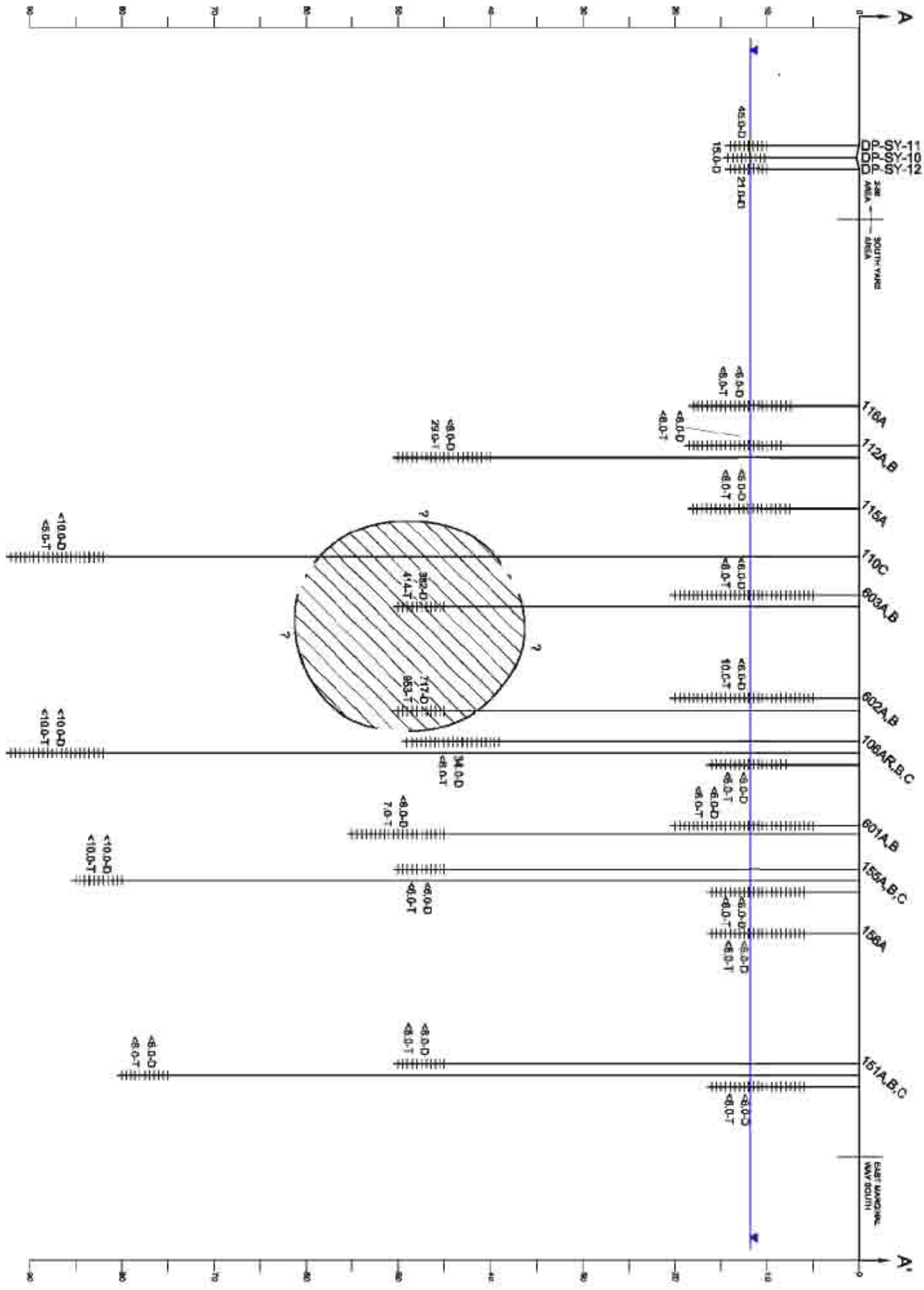
SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
SELENIUM
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 71.0ug/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 03/14/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
Bldg 2-03
Bldg 2-09
Bldg 2-11
Bldg 2-61
Bldg 2-46
Bldg 2-04
Bldg 2-126
Bldg 2-43
Bldg 2-89
Bldg 2-03
Bldg 2-61
Deactivated Waste Oil and Coolant Storage Area
NOTE: ALL CONCENTRATIONS ARE FOR DISSOLVED ZINC UNLESS OTHERWISE NOTED
ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION, ETC.)
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION
PROPERTY BOUNDARY
AREA BOUNDARY
AREA OF B-LEVEL GROUNDWATER ABOVE SCREENING LEVEL
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83
ENVIRONMENTAL PARTNERS INC
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
ZINC CONCENTRATIONS (µg/L)
LEVELS A, B & C GROUNDWATER
MARCH 2006 SAMPLES
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
HDC
REVIEWED BY
DCK
DATE



KEY:

- NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L) D = DISSOLVED T = TOTAL
- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)
- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

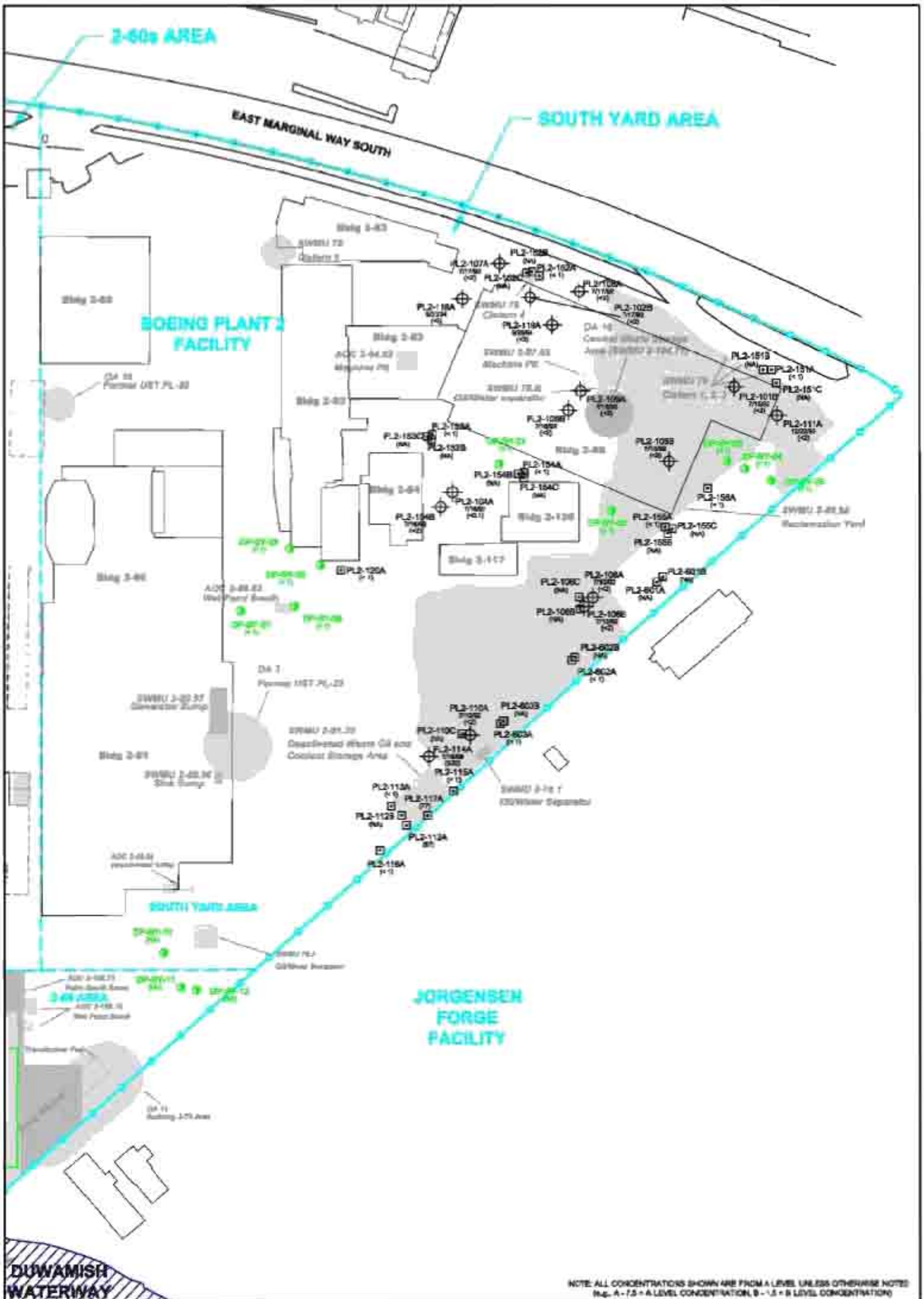
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
ZINC
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 81.0µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07



NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY

MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83

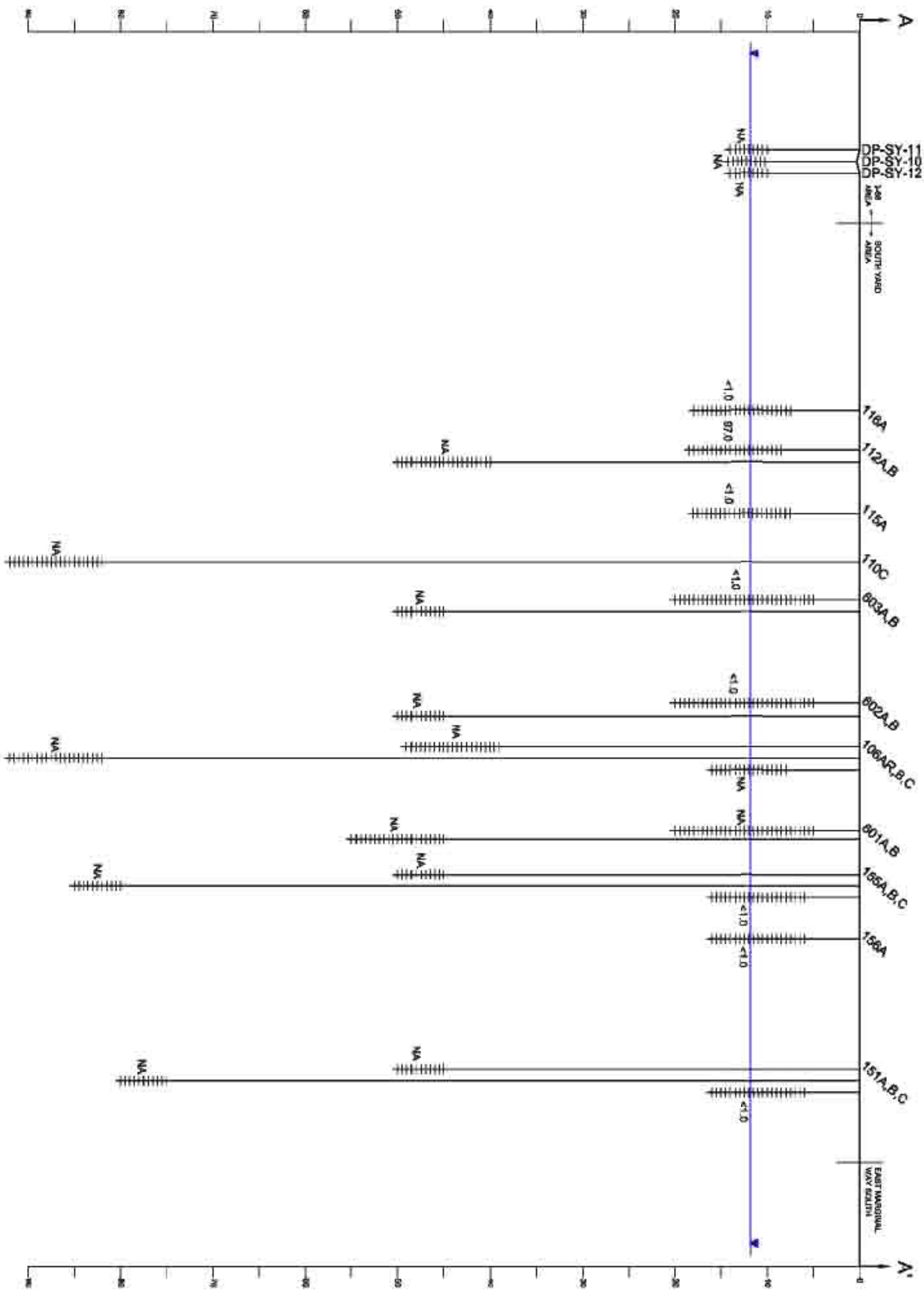
SCALE: 1" = 60'

ENVIRONMENTAL PARTNERS INC
[illegible]

BOEING PLANT 2 SOUTH YARD AREA
2,4-DIMETHYLPHENOL CONCENTRATIONS (µg/L)
LEVELS A, B, AND C GROUNDWATER
MARCH 2003 SAMPLES
SCREENING LEVEL (2004): 891 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCR	03/15/07



KEY:

- NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)
- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)
- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

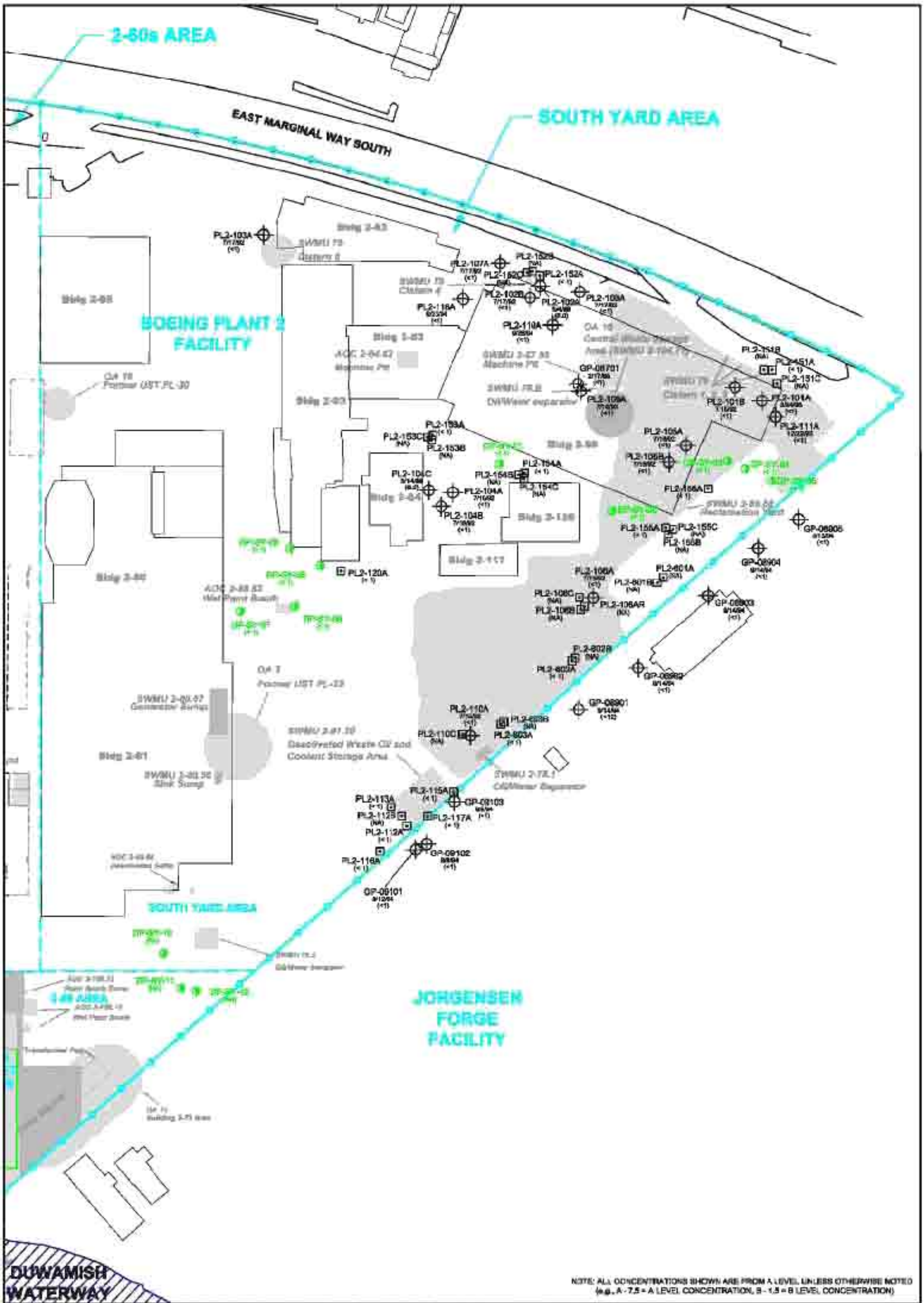
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
2,4-DIMETHYLPHENOL IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 201 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07



NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY

MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83

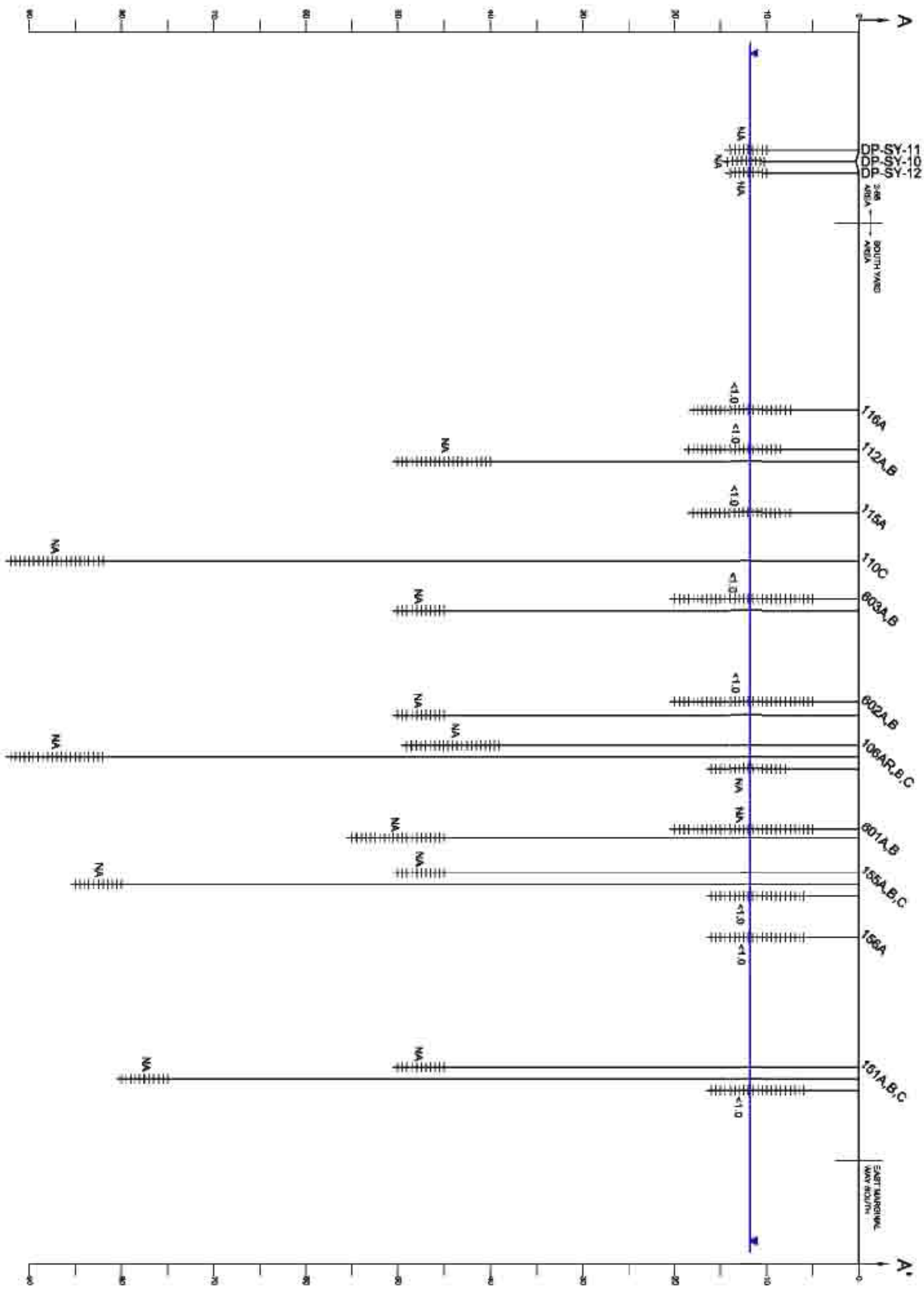
SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
BIS(2-ETHYLHEXYL)PHTHALATE CONCENTRATIONS (µg/L)
LEVELS A, B, AND C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 3.3 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCK	08/13/07



KEY:

- 6.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)
- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)
- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

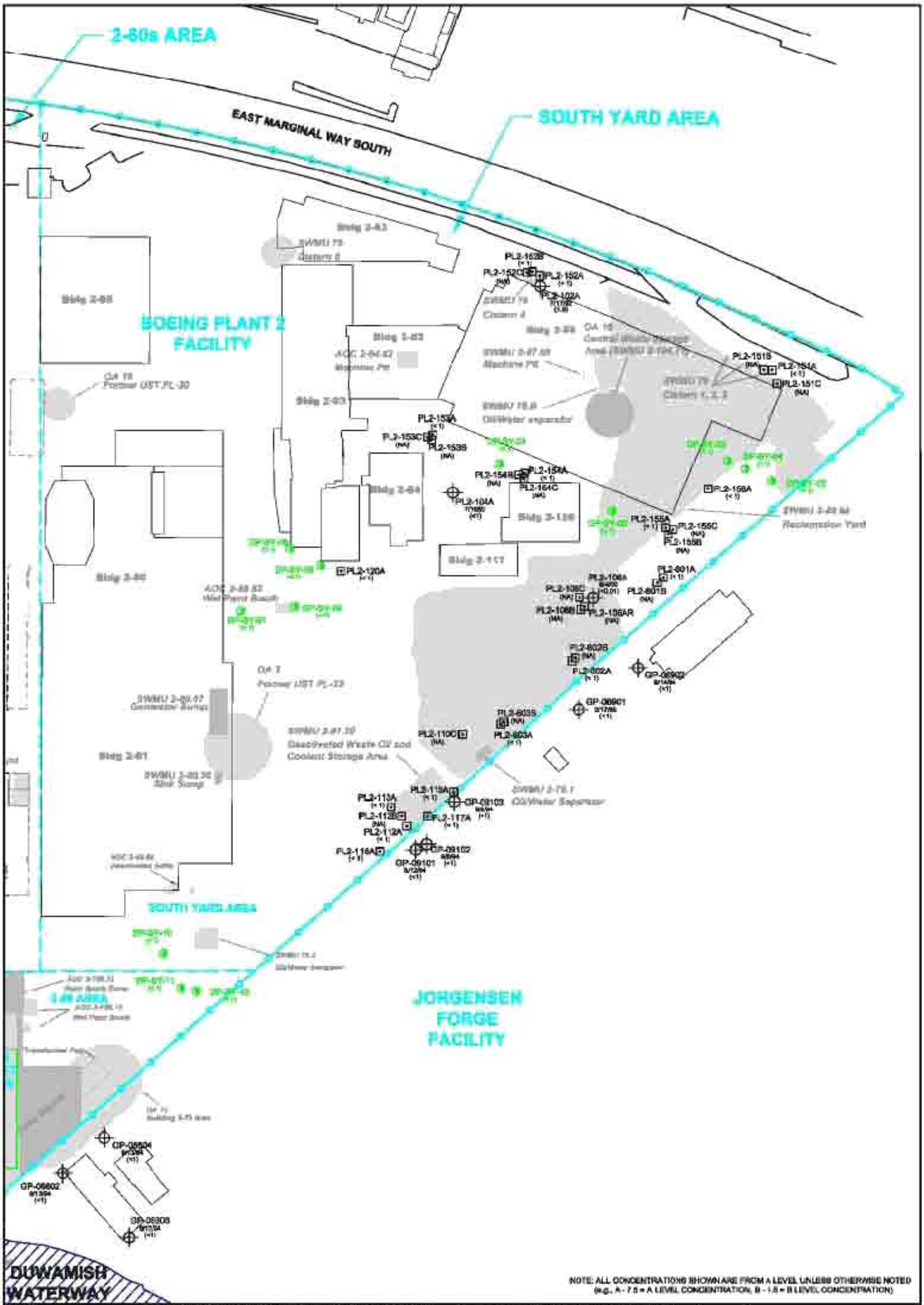
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

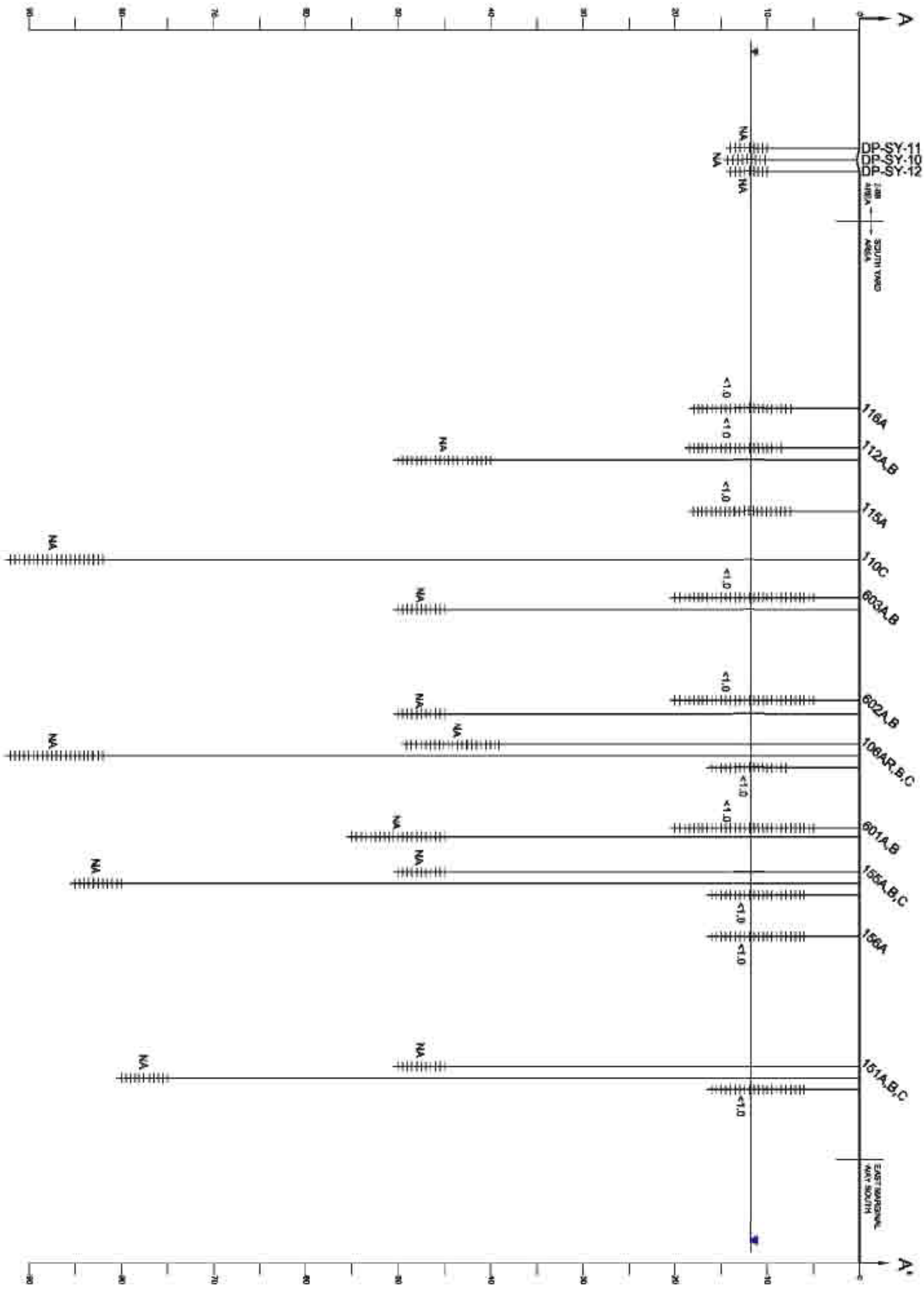
SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
BIS(2-ETHYLHEXYL)PHTHALATE
IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 3.0 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
SOUTH YARD AREA
PL2-152B
PL2-152C
PL2-152A
PL2-102A
PL2-151B
PL2-151A
PL2-151C
PL2-153A
PL2-153C
PL2-153B
PL2-154B
PL2-154A
PL2-154C
PL2-104A
PL2-158A
PL2-155A
PL2-155C
PL2-155B
PL2-120A
PL2-601A
PL2-601B
PL2-106A
PL2-106C
PL2-106B
PL2-106AR
PL2-602B
PL2-602A
GP-06903
GP-06901
PL2-603B
PL2-603A
PL2-110C
PL2-113A
PL2-112B
PL2-112A
PL2-116A
PL2-117A
GP-09103
GP-09102
GP-09101
GP-06604
GP-06602
GP-06603
NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
BOEING PLANT 2 SOUTH YARD AREA
AROCLOR 1254 CONCENTRATIONS (µg/L)
LEVELS A, B, AND C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (0004): 0.01 µg/L
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
HDC
REVIEWED BY
DCK
DATE
08/13/07



KEY:

4.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

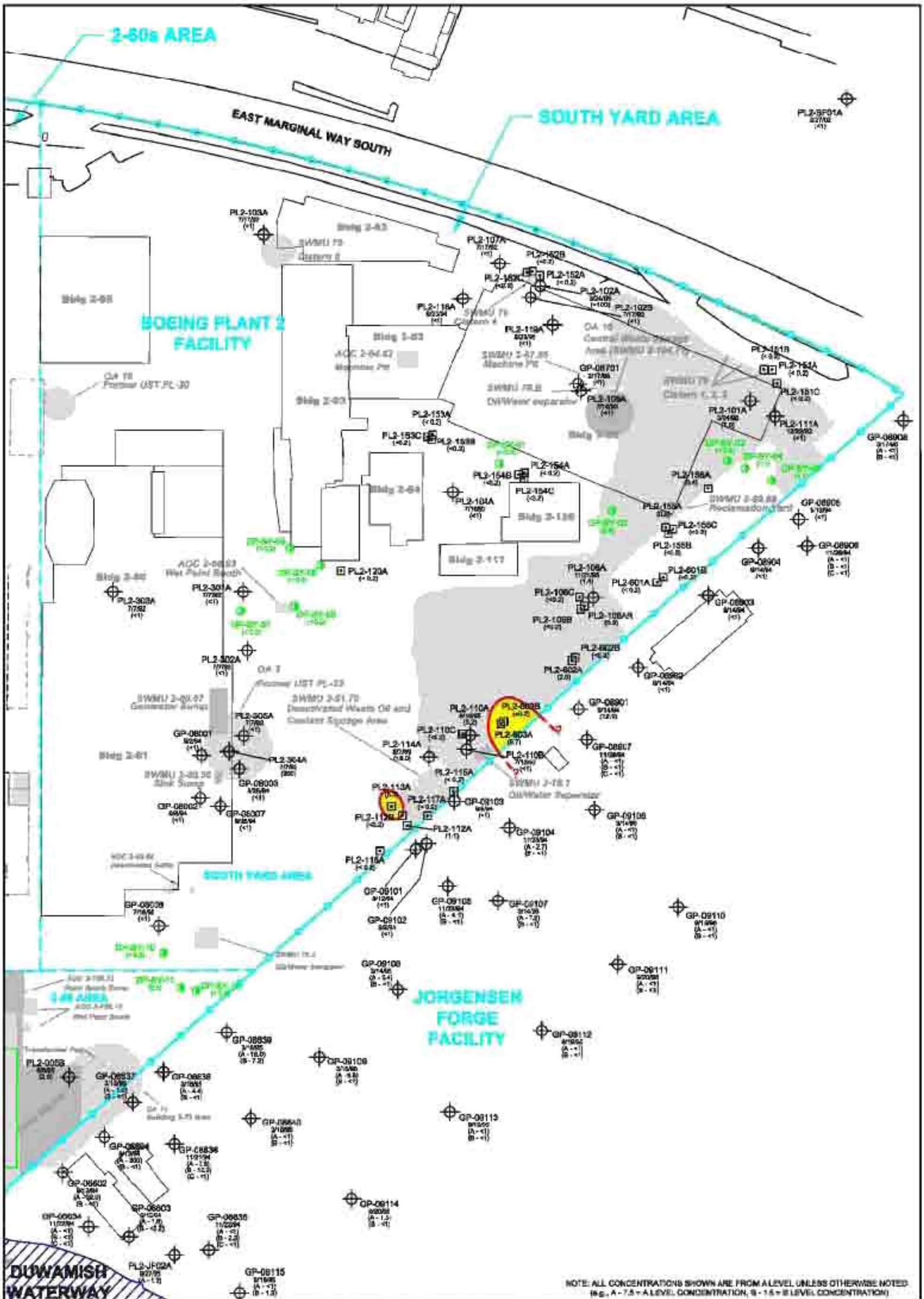
SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
AROCLOR 1254 IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 0.01 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	nDC	DCK	09/16/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
PL2-103A
PL2-107A
PL2-152B
PL2-152A
PL2-102A
PL2-102B
PL2-118A
PL2-119A
PL2-151B
PL2-151A
PL2-151D
PL2-101A
PL2-111A
PL2-153A
PL2-153C
PL2-154A
PL2-154B
PL2-154C
PL2-104A
PL2-158A
PL2-156C
PL2-155B
PL2-120A
PL2-301A
PL2-303A
PL2-106A
PL2-601B
PL2-601A
PL2-106C
PL2-106B
PL2-106AR
PL2-602B
PL2-602A
PL2-302A
PL2-305A
PL2-304A
PL2-110A
PL2-603B
PL2-603A
PL2-110C
PL2-110B
PL2-114A
PL2-115A
PL2-113A
PL2-117A
PL2-112A
PL2-116A
PL2-0058
PL2-JF02A
GP-08901
GP-08907
GP-08903
GP-08904
GP-08906
GP-08908
GP-08909
GP-08910
GP-08911
GP-08912
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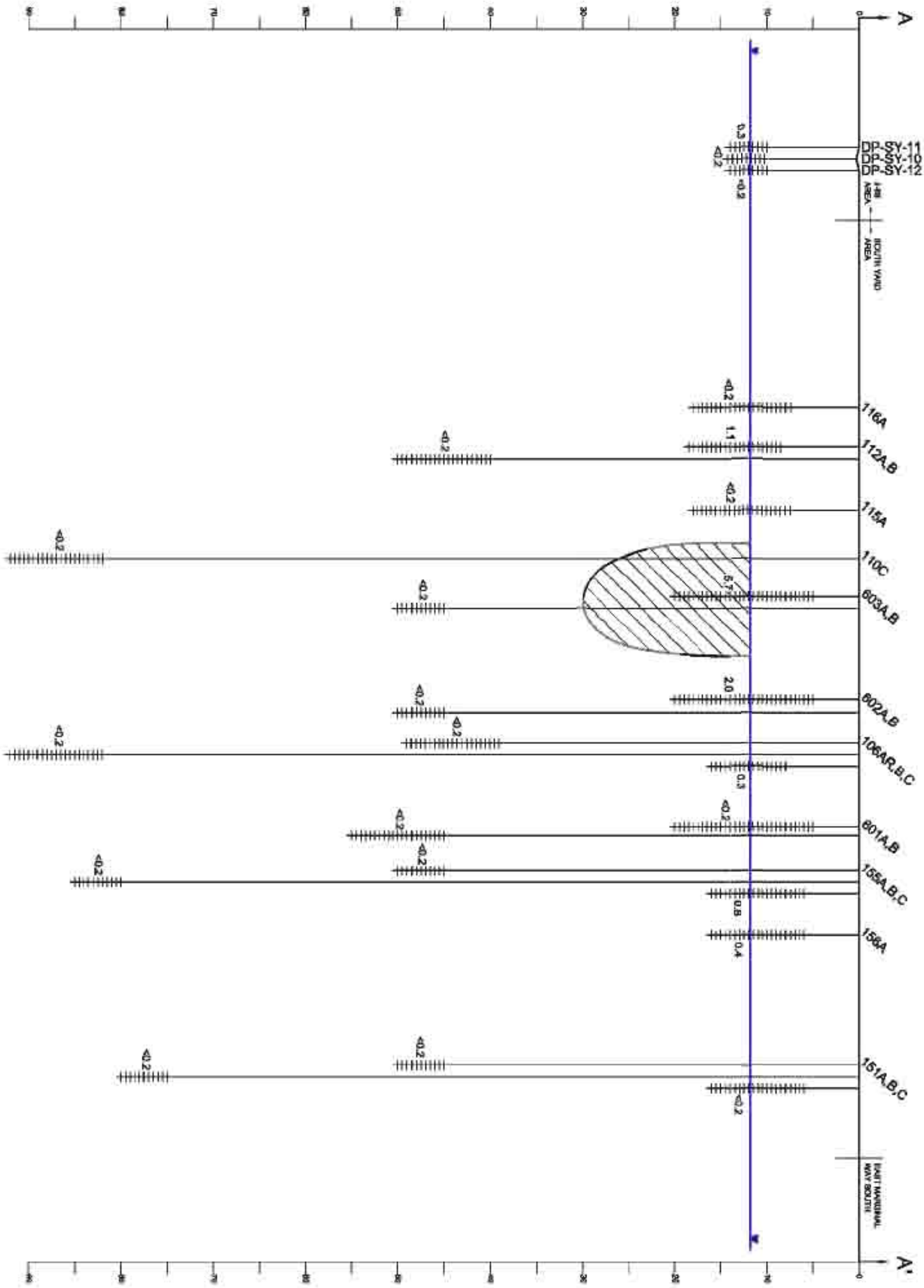
GP-09110
GP-09111
GP-09112
GP-09113
GP-09114
GP-09115
NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
AREA OF A LEVEL GROUNDWATER ABOVE SCREENING LEVEL
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83.
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
PROJECT: BOEING PLANT 2
PREPARED FOR: THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
BENZENE CONCENTRATIONS (µg/L)
LEVELS A, B, AND C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 0.45 µg/L
LOCATION: 7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON
SHEET: 1 of 1
DRAWN BY: HDC
REVIEWED BY: DCK
DATE: 08/13/07



KEY:

4.0 - NUMBER INSIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (ug/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

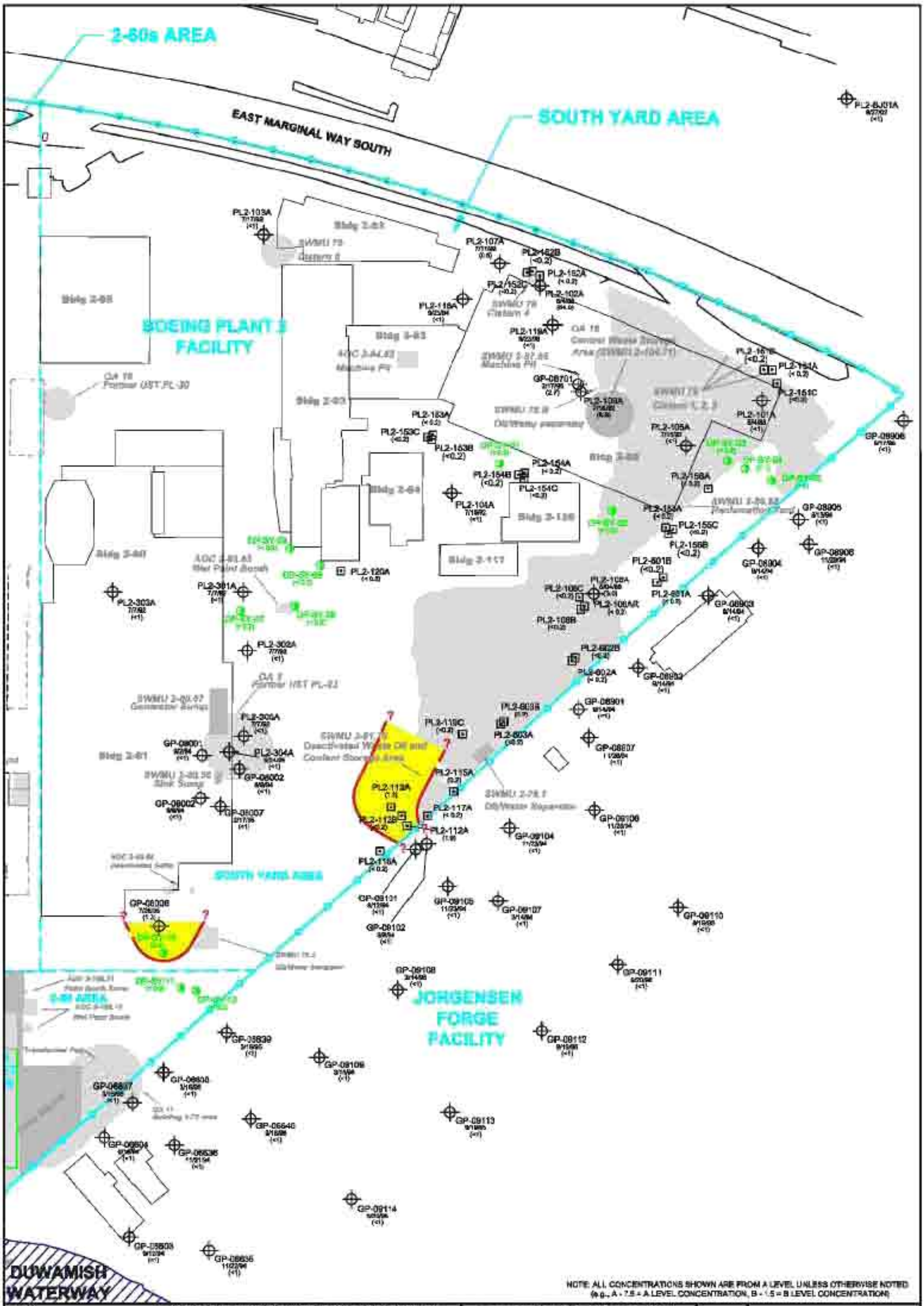
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
BENZENE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 4.48ug/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
PL2-103A
PL2-107A
PL2-102A
PL2-118A
PL2-119A
PL2-151A
PL2-151C
PL2-101A
PL2-105A
PL2-158A
PL2-155C
PL2-156B
PL2-104A
PL2-120A
PL2-301A
PL2-303A
PL2-302A
PL2-304A
PL2-115A
PL2-117A
PL2-112A
PL2-116A
GP-08906
GP-08905
GP-08904
GP-08903
GP-08902
GP-08901
GP-08907
GP-08002
GP-08007
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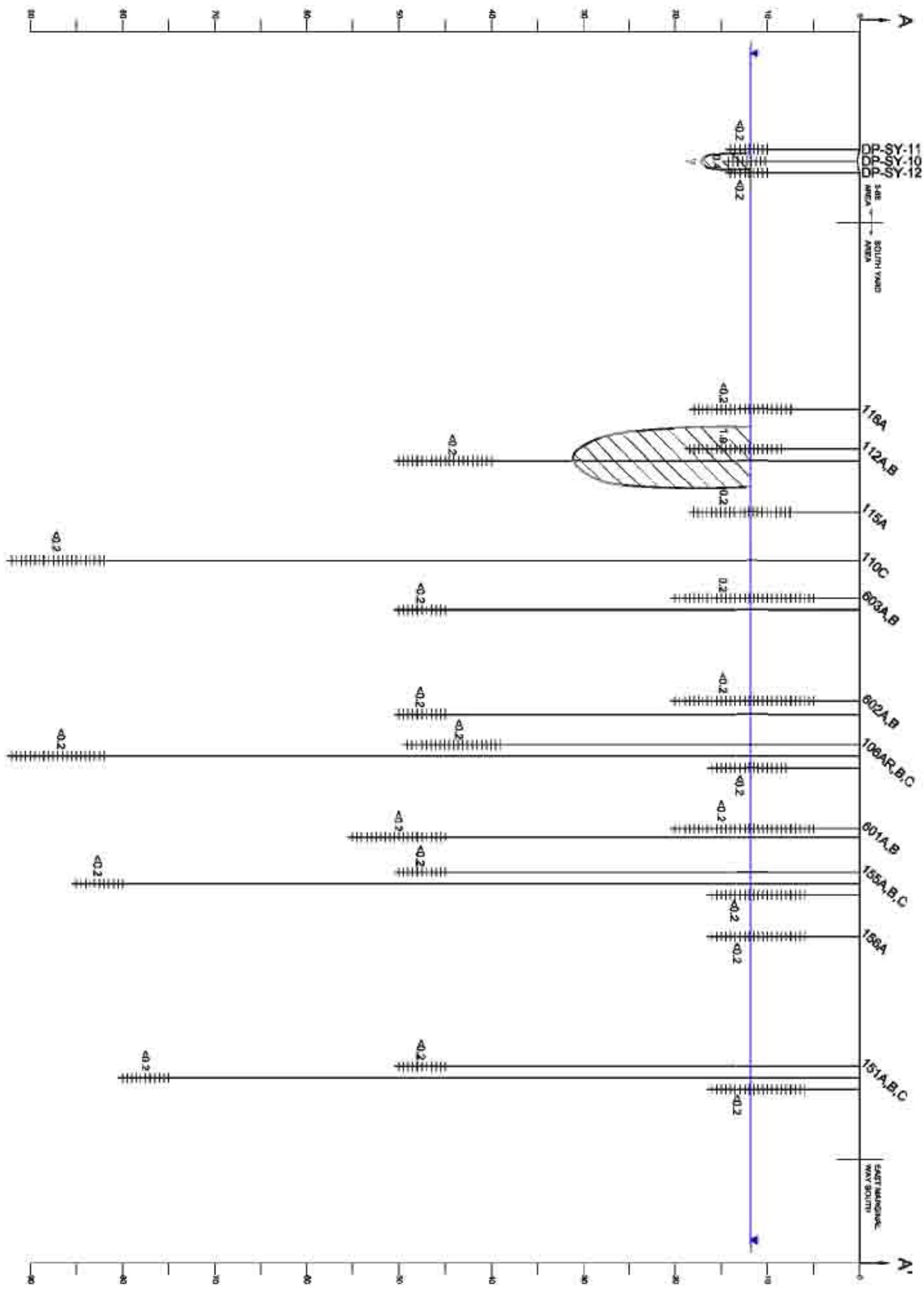
GP-09112
GP-09109
GP-09113
GP-09114
GP-09103
GP-09106
Bldg 2-65
Bldg 2-63
Bldg 2-64
Bldg 2-61
Bldg 2-117
Bldg 2-136
Bldg 2-60
Bldg 2-62
SWMU 2-91.97
Bldg 2-61
SWMU 2-91.98
Sink Sump
SWMU 2-91.99
Deactivated Waste Oil and Coolant Storage Area
SWMU 2-91.1
Oil/Water Separator
SOUTH YARD AREA
S-90 AREA
NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED
(e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
AREA OF A LEVEL GROUNDWATER ABOVE SCREENING LEVEL
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
1,1-DICHLOROETHENE CONCENTRATIONS (µg/L)
LEVELS A, B AND C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (RDM): 0.364 µg/L
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
HDC
REVIEWED BY
DCK
DATE
03/17/07



KEY:

4.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

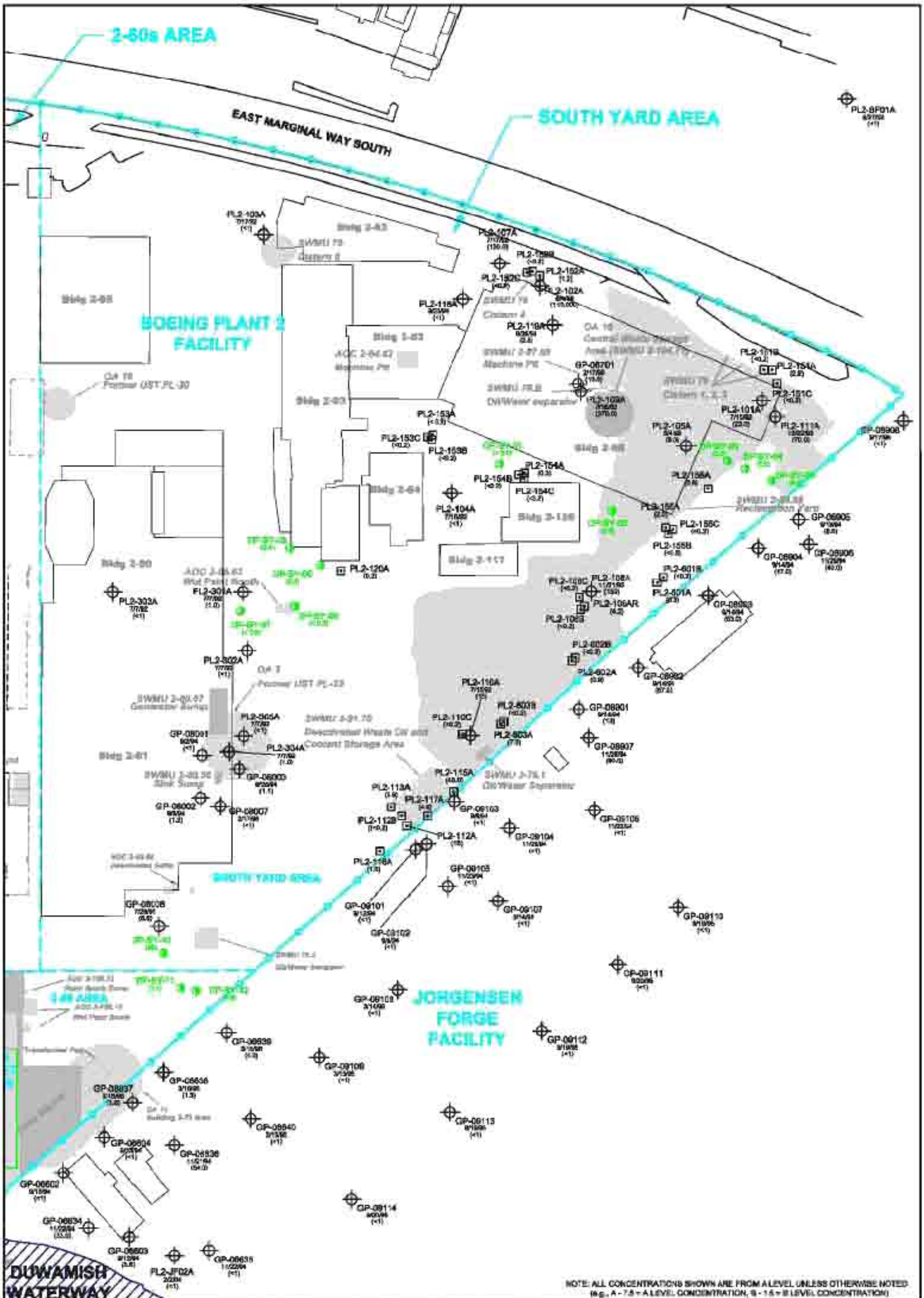
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
1,1-DICHLOROETHENE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 0.382 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07



NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY

MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83.

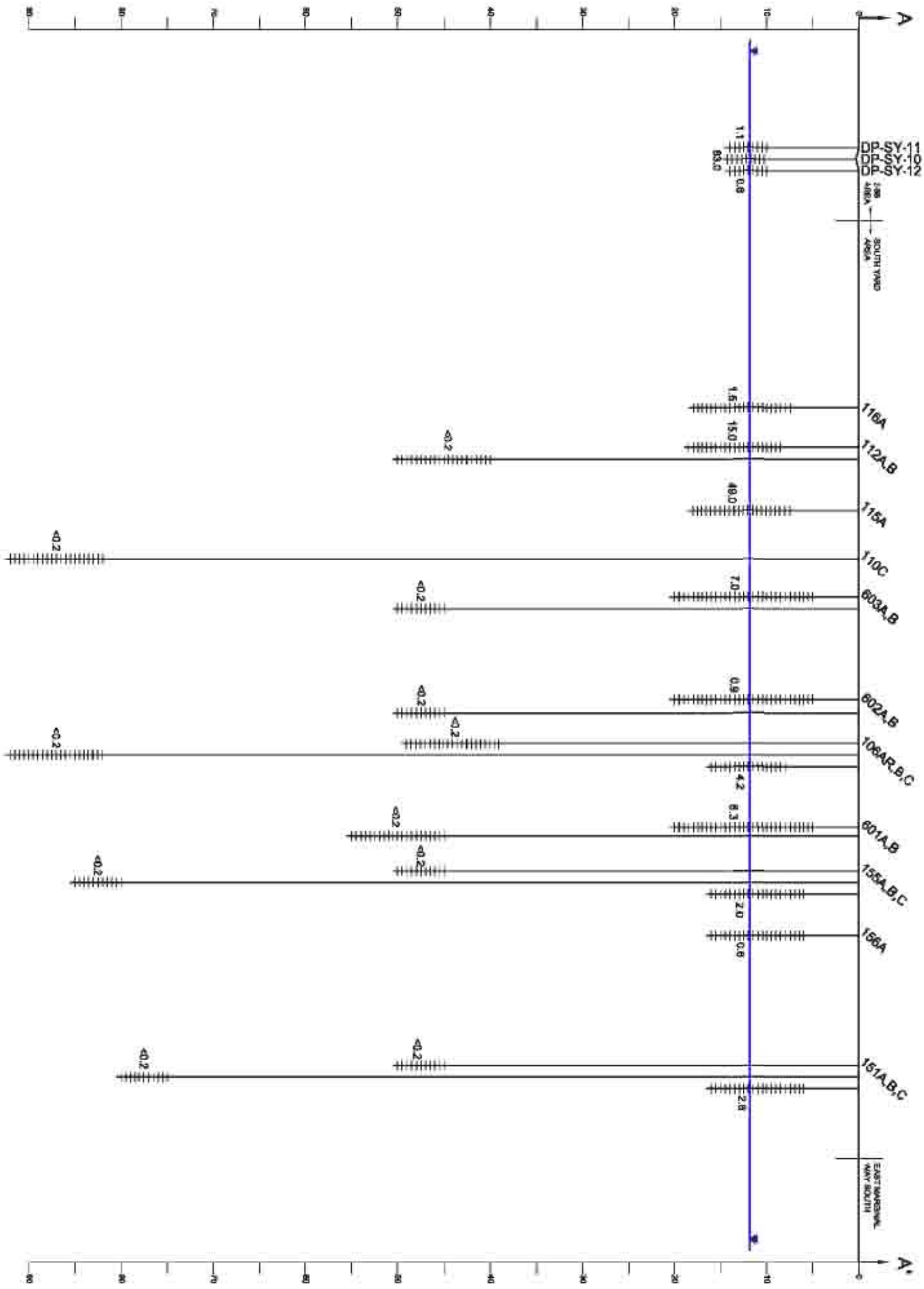
SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
CIS-1, 2-DICHLOROETHENE CONCENTRATIONS (µg/L)
LEVELS A, B AND C GROUNDWATER
MARCH 2006 SAMPLES
SCREENING LEVEL (RDM): 1,600 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCK	03/13/07



KEY:

4.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (ug/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

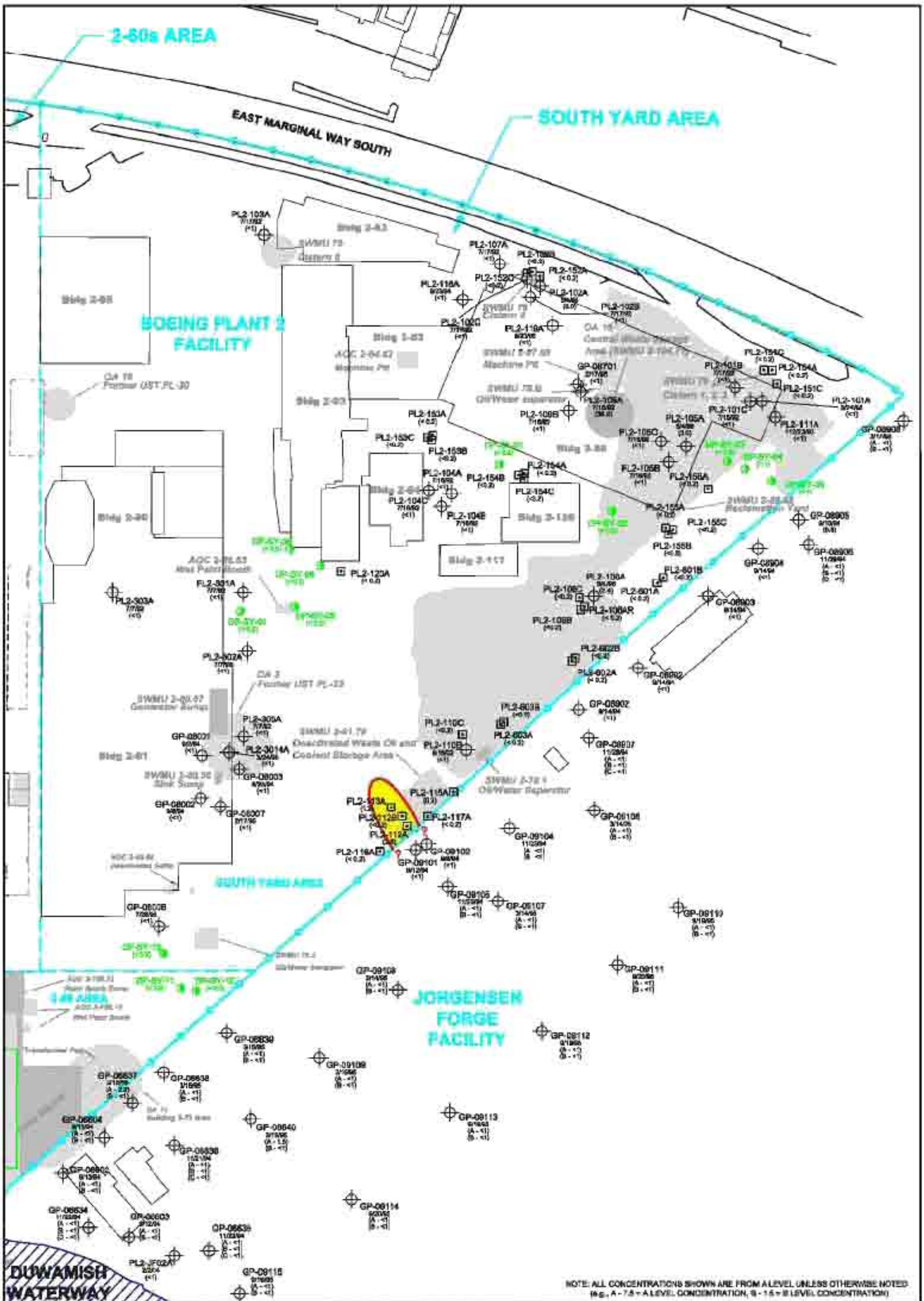
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
CIS-1,2-DICHLOROETHENE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 1,550 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07



NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY
- AREA OF A LEVEL GROUNDWATER ABOVE SCREENING LEVEL

MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83

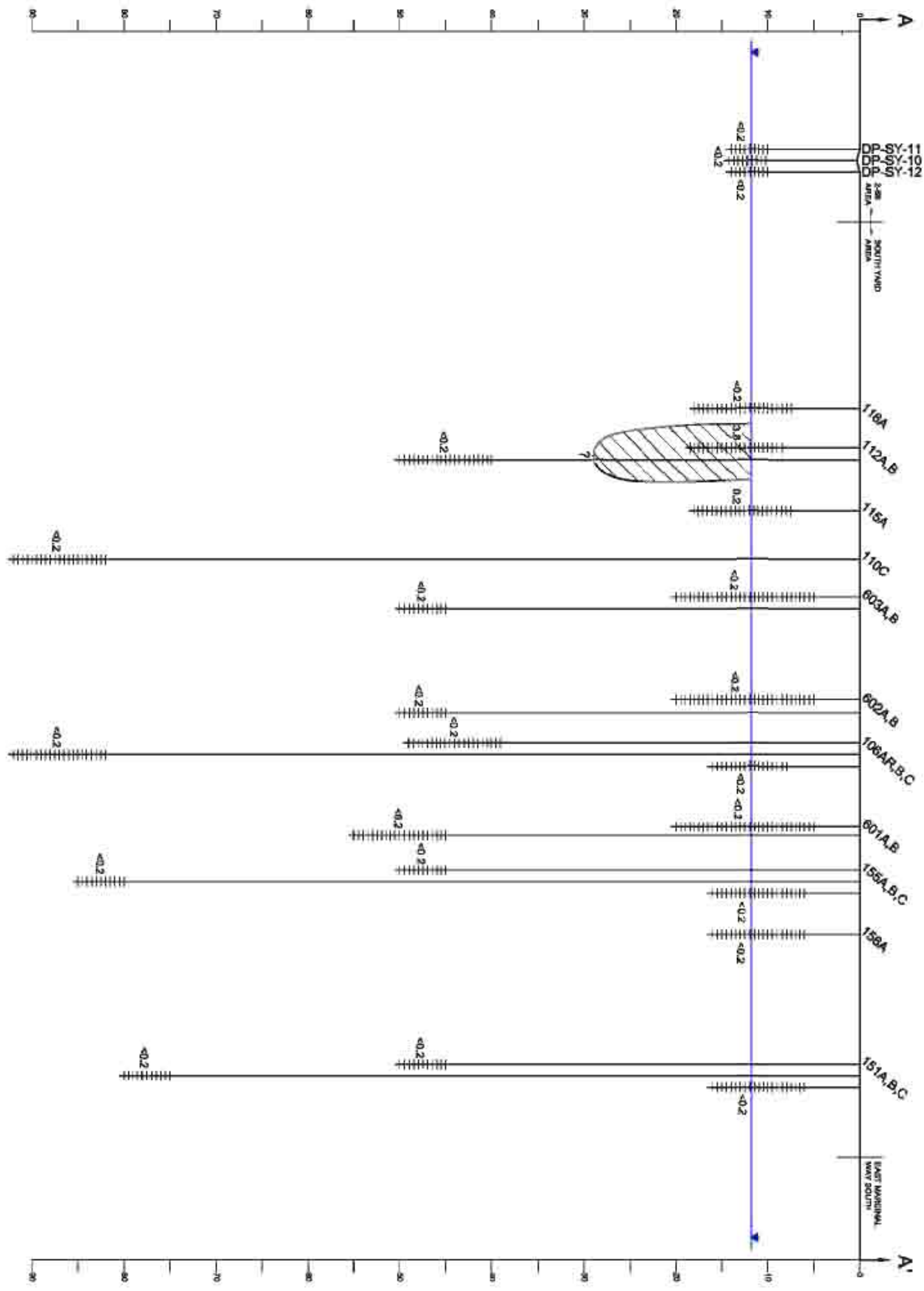
SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
TETRACHLOROETHENE CONCENTRATIONS (µg/L)
LEVEL A, B, AND C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 0.822 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCK	03/13/07



KEY:

4.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

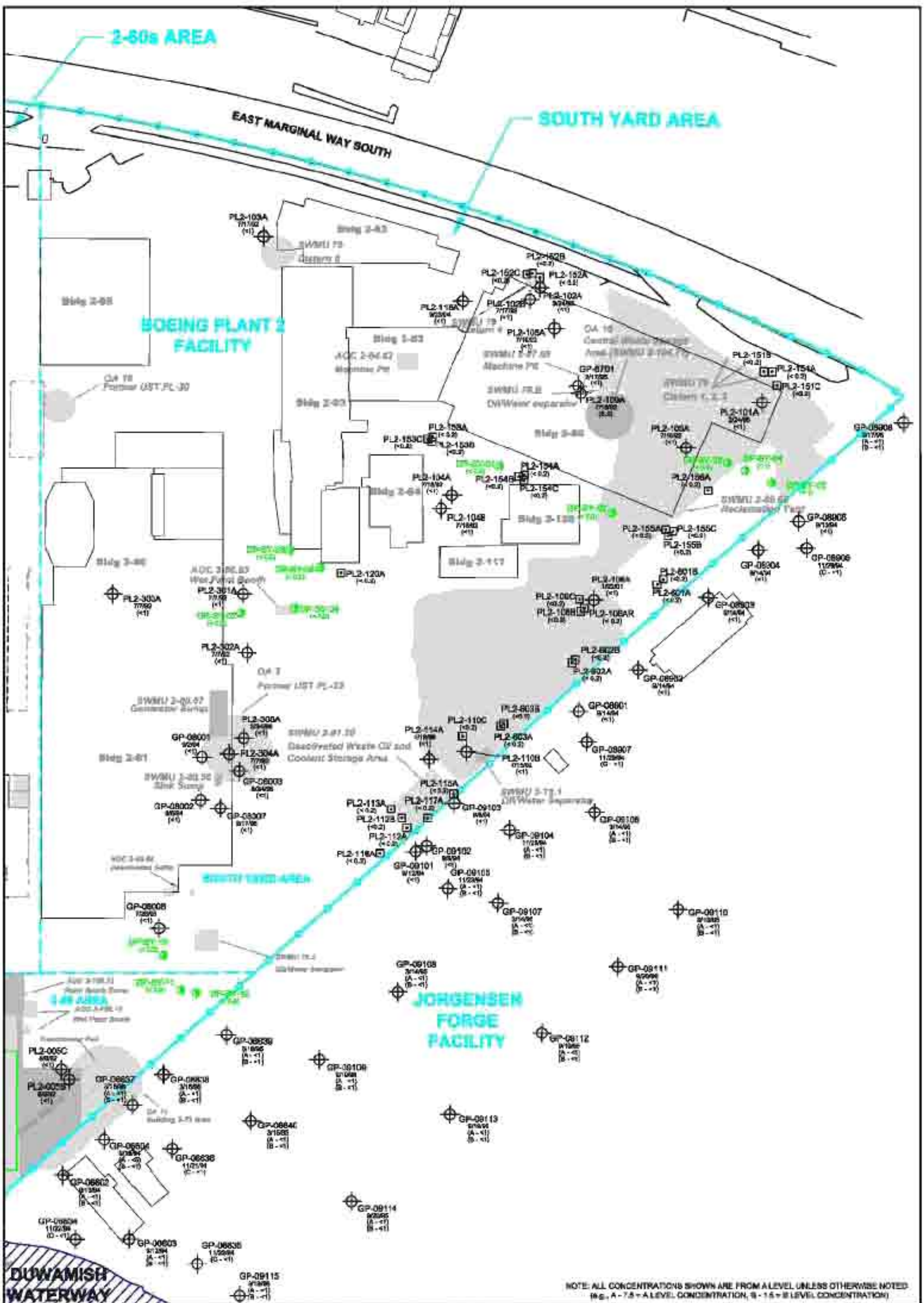
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
TETRACHLOROETHENE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 0.82 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07



NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g., A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY
- MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83

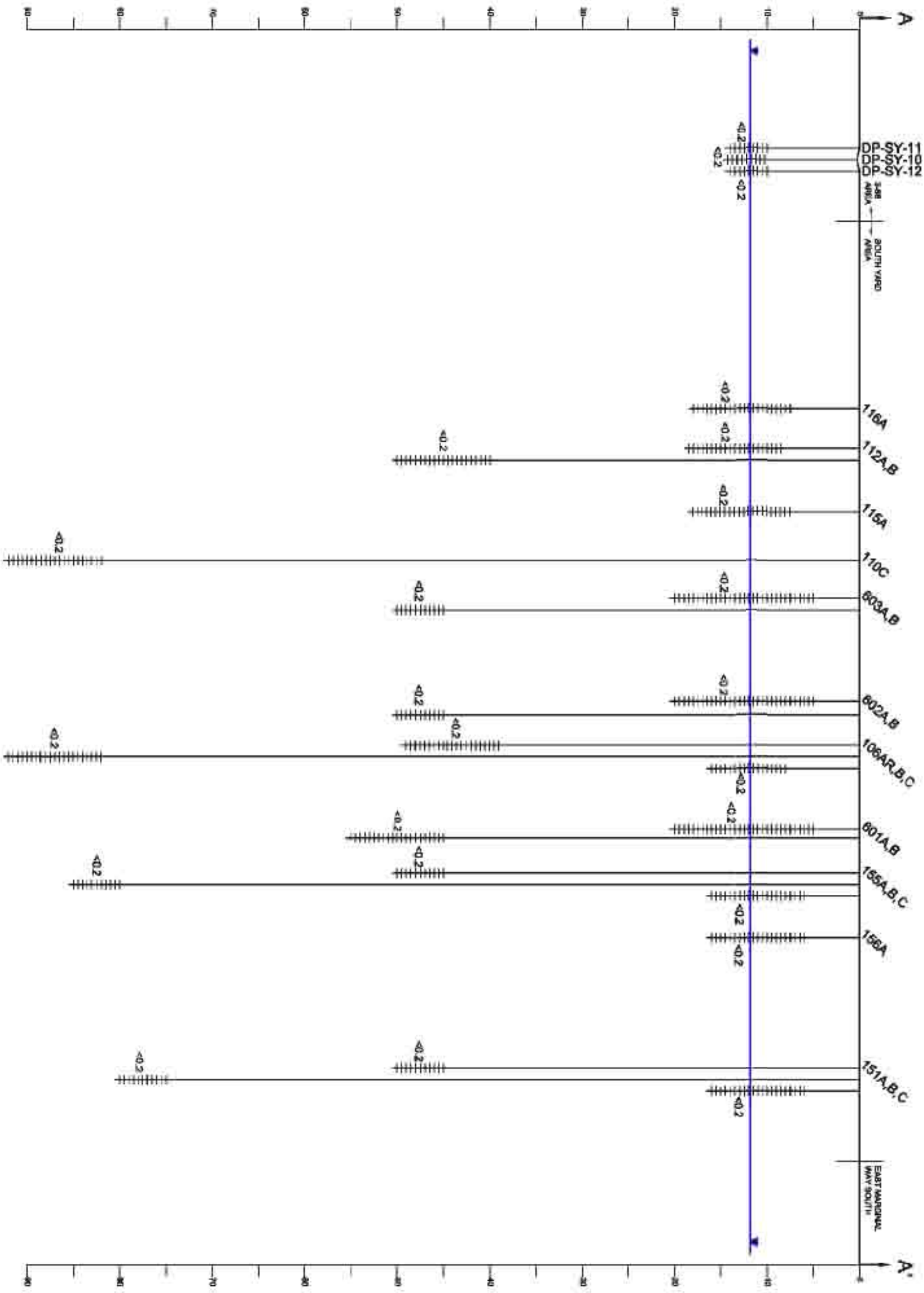
SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
1,1,2-TRICHLOROETHANE CONCENTRATIONS (µg/L)
LEVELS A, B, & C GROUNDWATER
MARCH 2006 SAMPLES
SCREENING LEVEL (2004): 5.0 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCK	05/13/07



KEY:

4.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

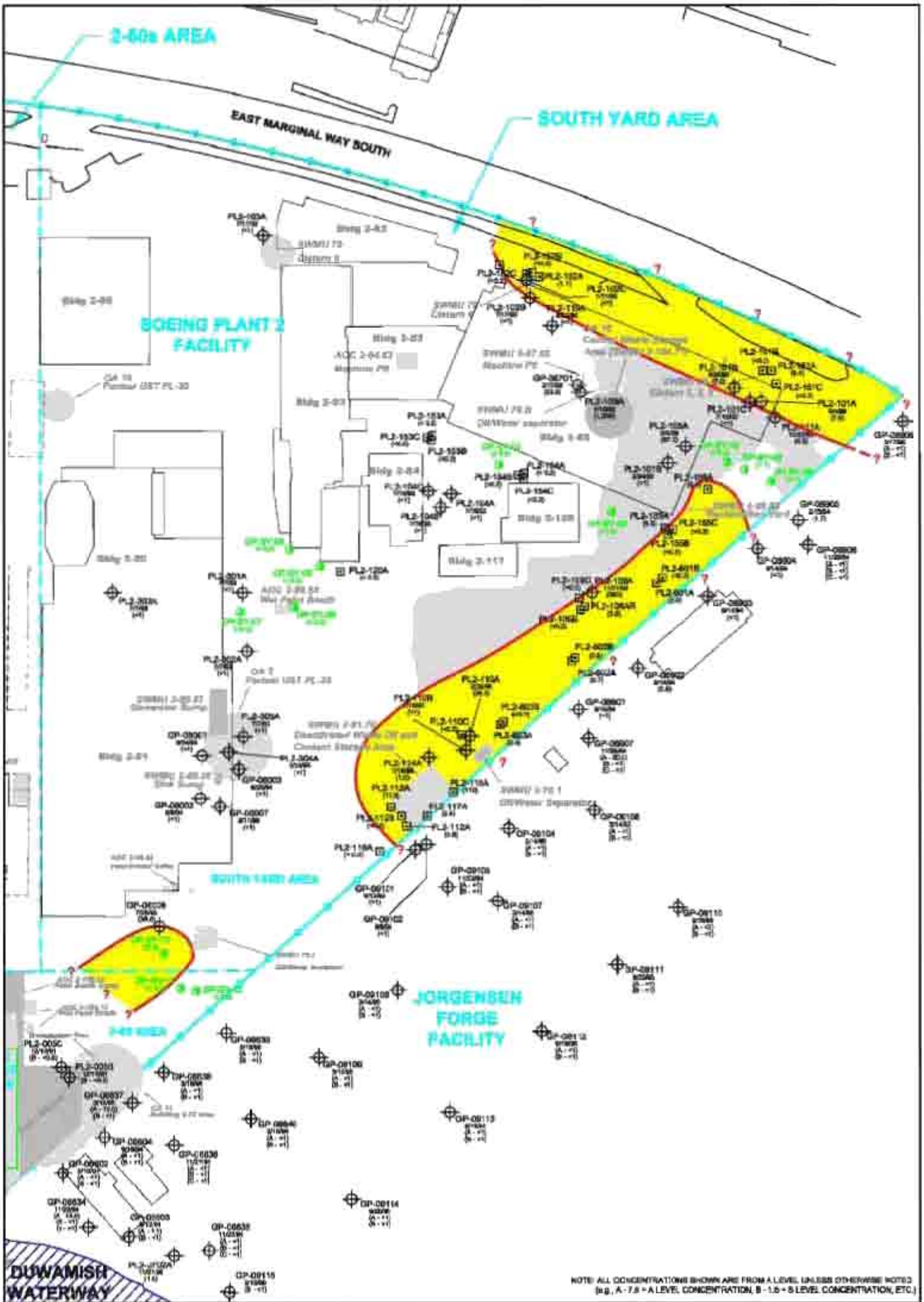
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

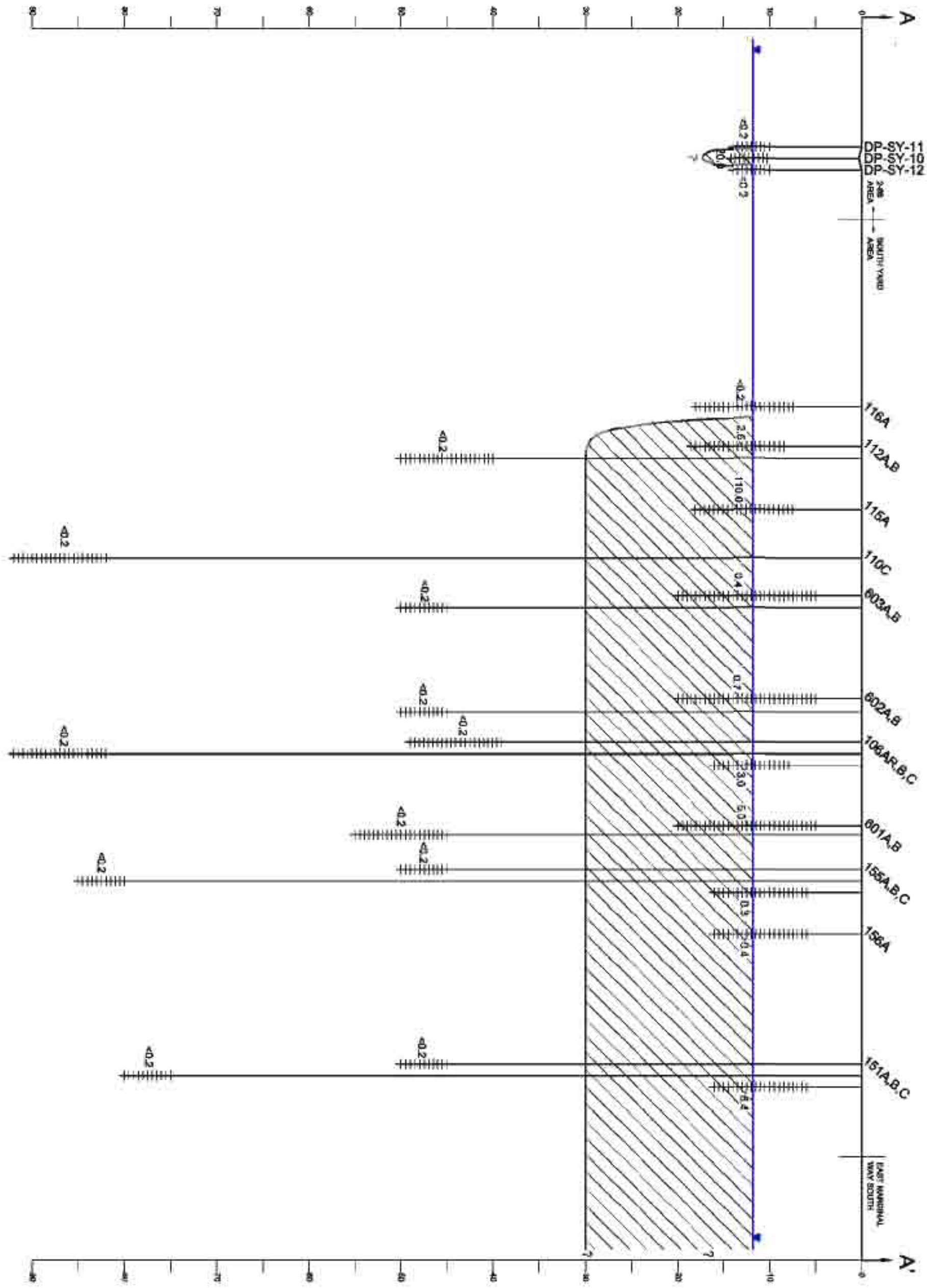
SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
1,1,2-TRICHLOROETHANE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 5.0 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g., A - 7.6 = A LEVEL CONCENTRATION, B - 1.6 = B LEVEL CONCENTRATION, ETC.)
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
AREA OF A LEVEL GROUNDWATER ABOVE SCREENING LEVEL
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83
ENVIRONMENTAL PARTNERS INC
BOEING PLANT 2 SOUTH YARD AREA
TRICHLOROETHENE CONCENTRATIONS (µg/L)
LEVELS A, B, & C GROUNDWATER
MARCH 2005
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
HDC
REVIEWED BY
DCK
DATE



KEY:

- NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)
- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)
- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

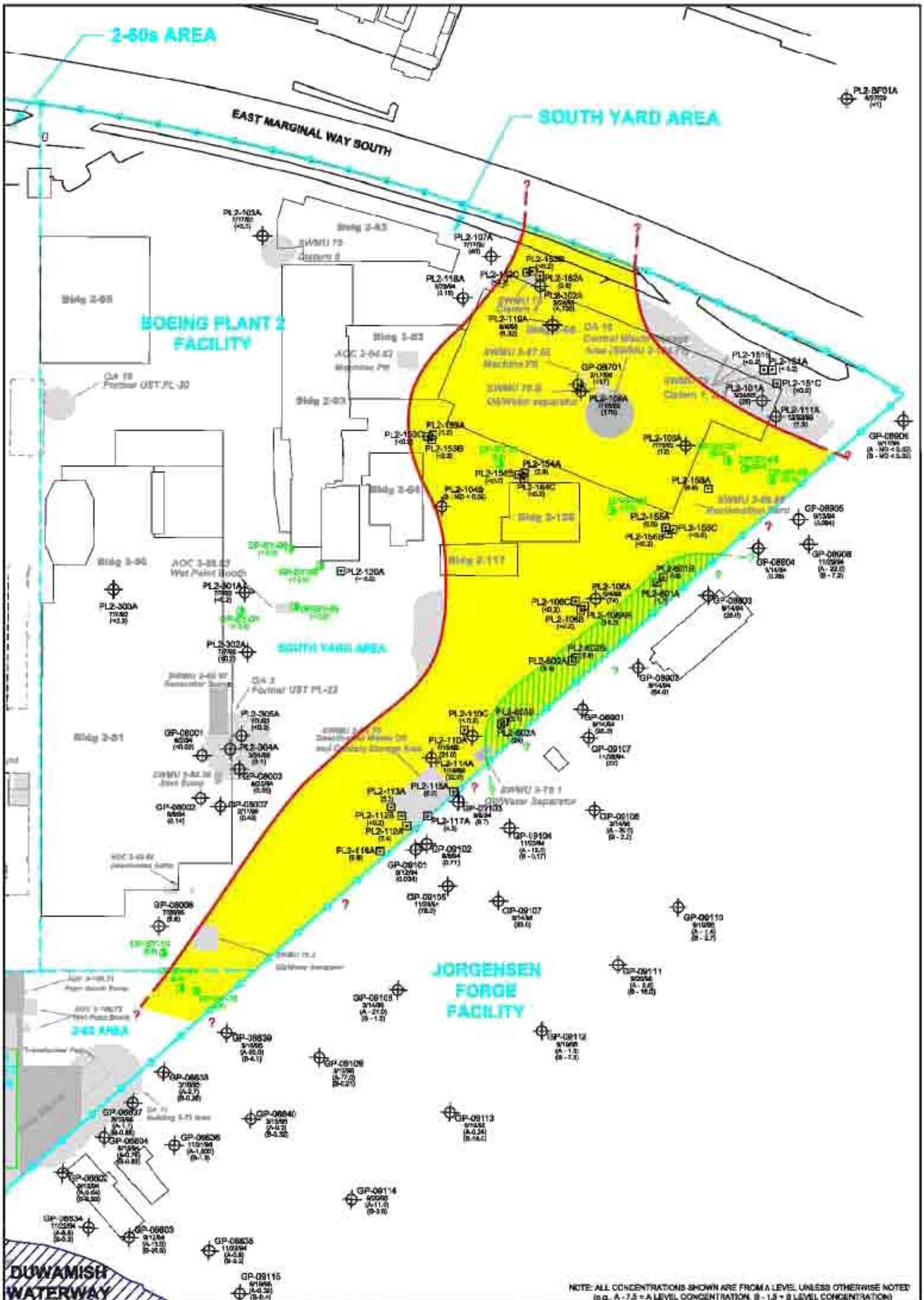
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
TRICHLOROETHENE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 0.932 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY nDC	REVIEWED BY DCK	DATE 09/18/07



NOTE: ALL CONCENTRATIONS SHOWN ARE FROM A LEVEL UNLESS OTHERWISE NOTED (e.g. A - 7.5 = A LEVEL CONCENTRATION, B - 1.5 = B LEVEL CONCENTRATION)

KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY
- AREA OF A-LEVEL GROUNDWATER ABOVE SCREENING LEVEL
- AREA OF B-LEVEL GROUNDWATER ABOVE SCREENING LEVEL

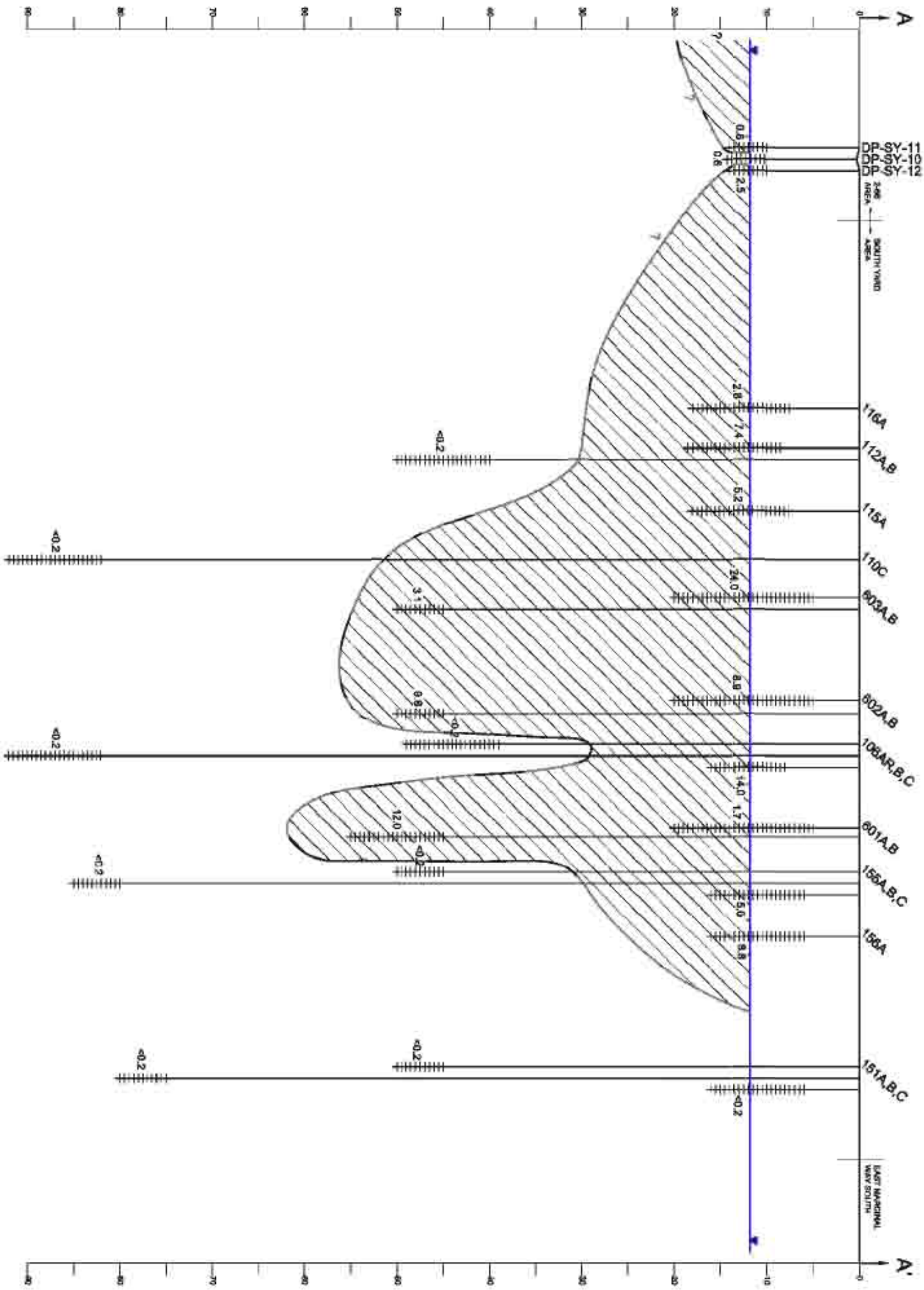
SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
VINYL CHLORIDE CONCENTRATIONS (µg/L)
LEVELS A, B AND C GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (SQL): 0.731 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCK	03/13/05



KEY:

4.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

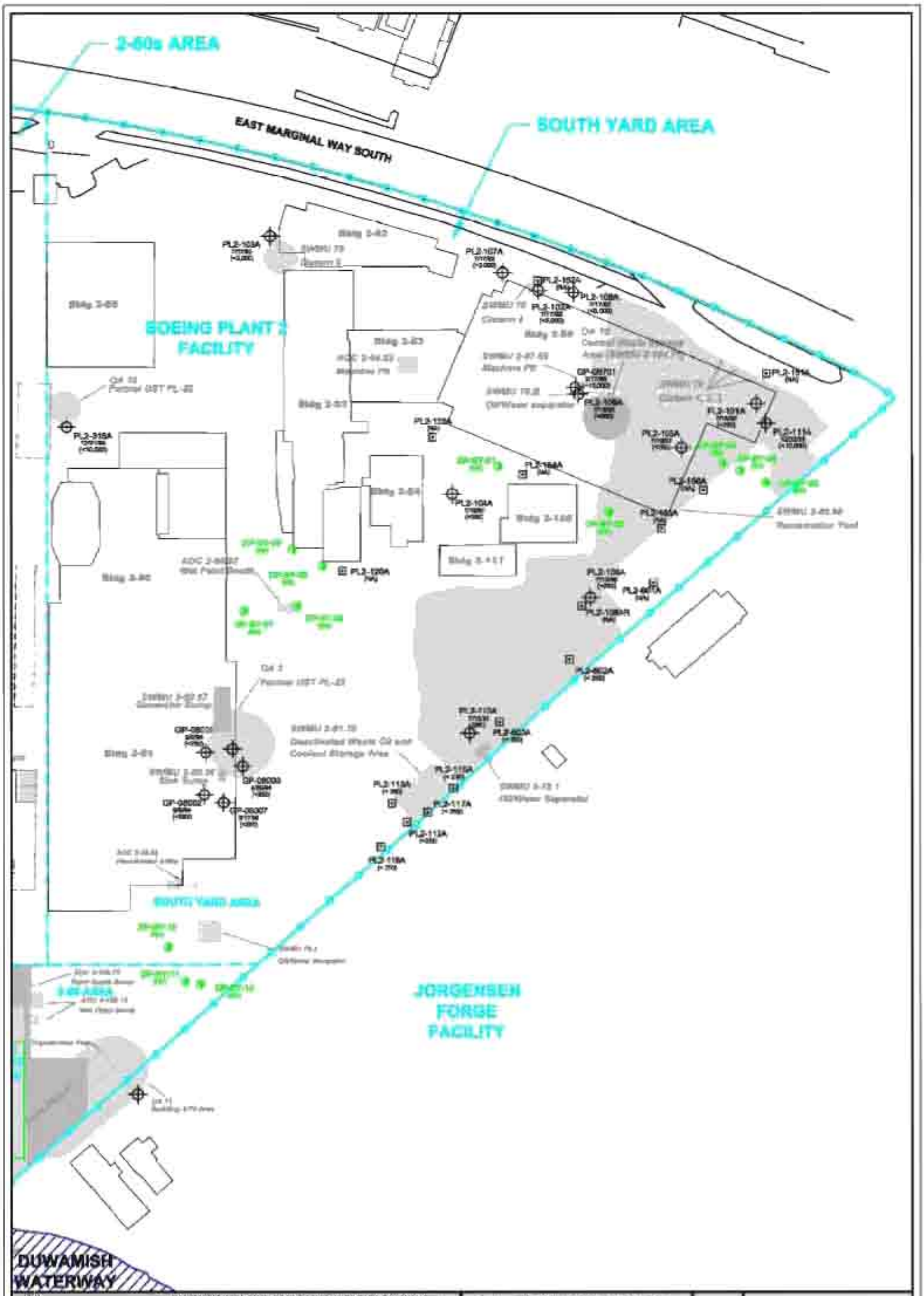
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
VINYL CHLORIDE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 0.73 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 03/16/07



KEY

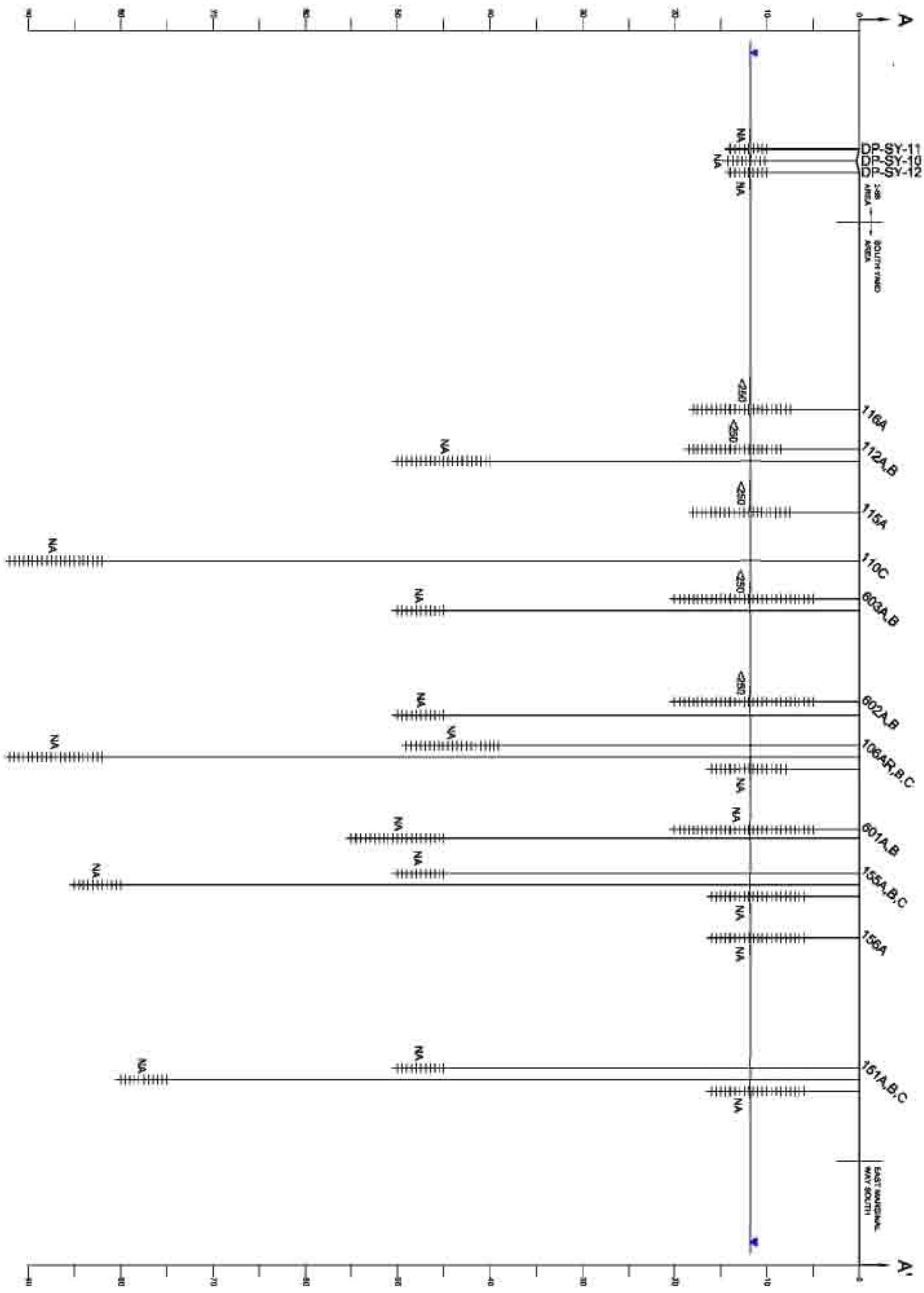
- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY
- NA - NOT ANALYZED

SCALE: 1" = 100'

ENVIRONMENTAL PARTNERS INC

BOEING PLANT 2 SOUTH YARD AREA
TPH-GASOLINE RANGE CONCENTRATIONS (µg/L)
LEVEL A GROUNDWATER
MARCH 2006 SAMPLES
SCREENING LEVEL: (2004) 800 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY HDC	REVIEWED BY DCK	DATE 03/13/07



KEY:

4.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (ug/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

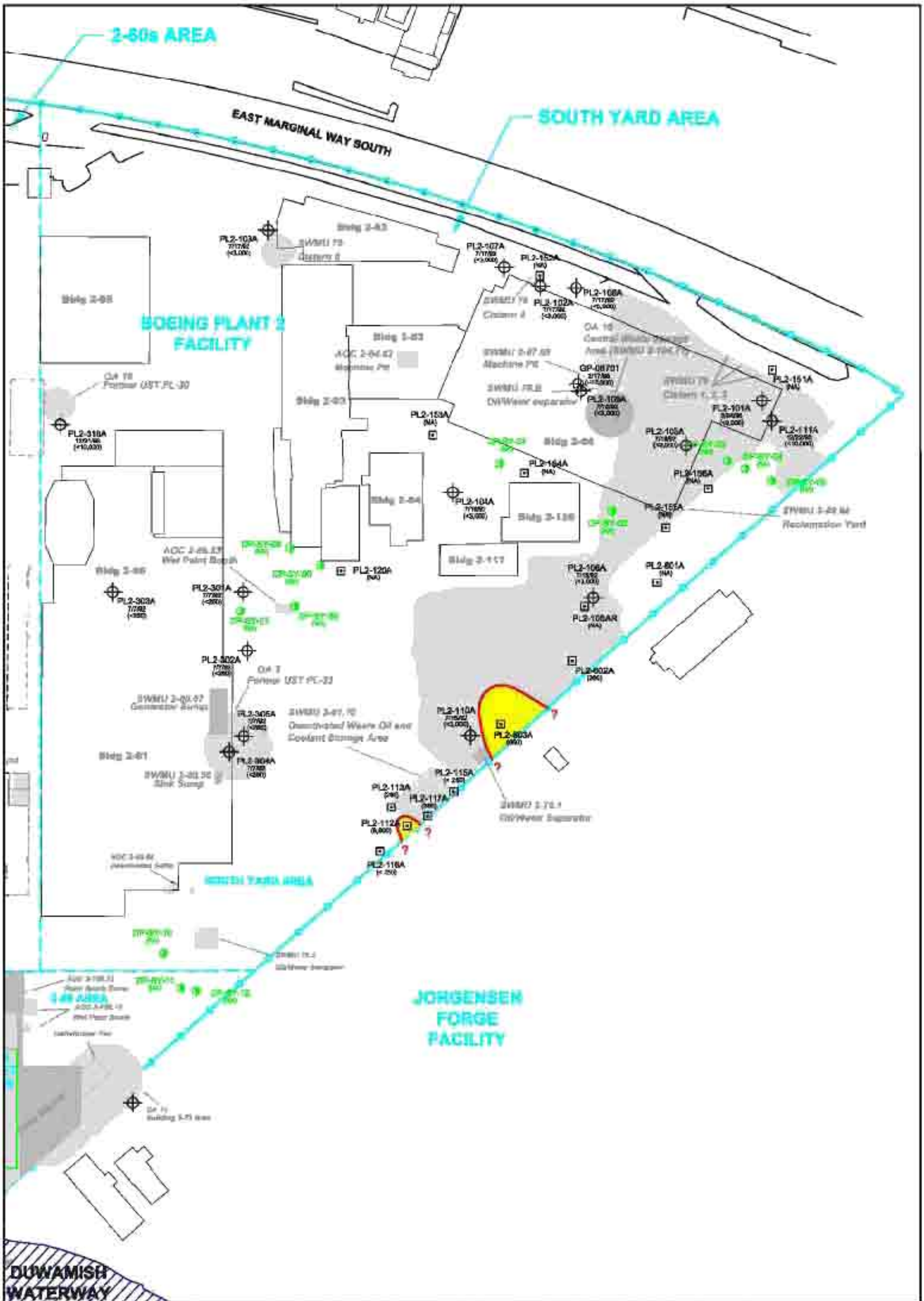
NOTE:
APPROXIMATE VERTICAL SCALE: 1" = 12'
APPROXIMATE HORIZONTAL SCALE: 1" = 100'

SOUTH YARD AREA DATA GAPS SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
TPH-GASOLINE RANGE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 500ug/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07


2-60s AREA
EAST MARGINAL WAY SOUTH
SOUTH YARD AREA
BOEING PLANT 2 FACILITY
JORGENSEN FORGE FACILITY
DUWAMISH WATERWAY
PL2-103A
PL2-107A
PL2-152A
PL2-108A
PL2-102A
PL2-151A
PL2-101A
PL2-111A
PL2-105A
PL2-156A
PL2-155A
PL2-153A
PL2-154A
PL2-104A
PL2-120A
PL2-106A
PL2-801A
PL2-106AR
PL2-802A
PL2-303A
PL2-301A
PL2-302A
PL2-305A
PL2-304A
PL2-110A
PL2-803A
PL2-115A
PL2-113A
PL2-117A
PL2-112A
PL2-116A
PL2-318A
GP-08701
Reclamation Yard
Machine Pit
Oil/Water separator
Former UST PC-30
Former UST PC-23
Central Waste Storage Area
Sink Sump
Building 2-63
Building 2-65
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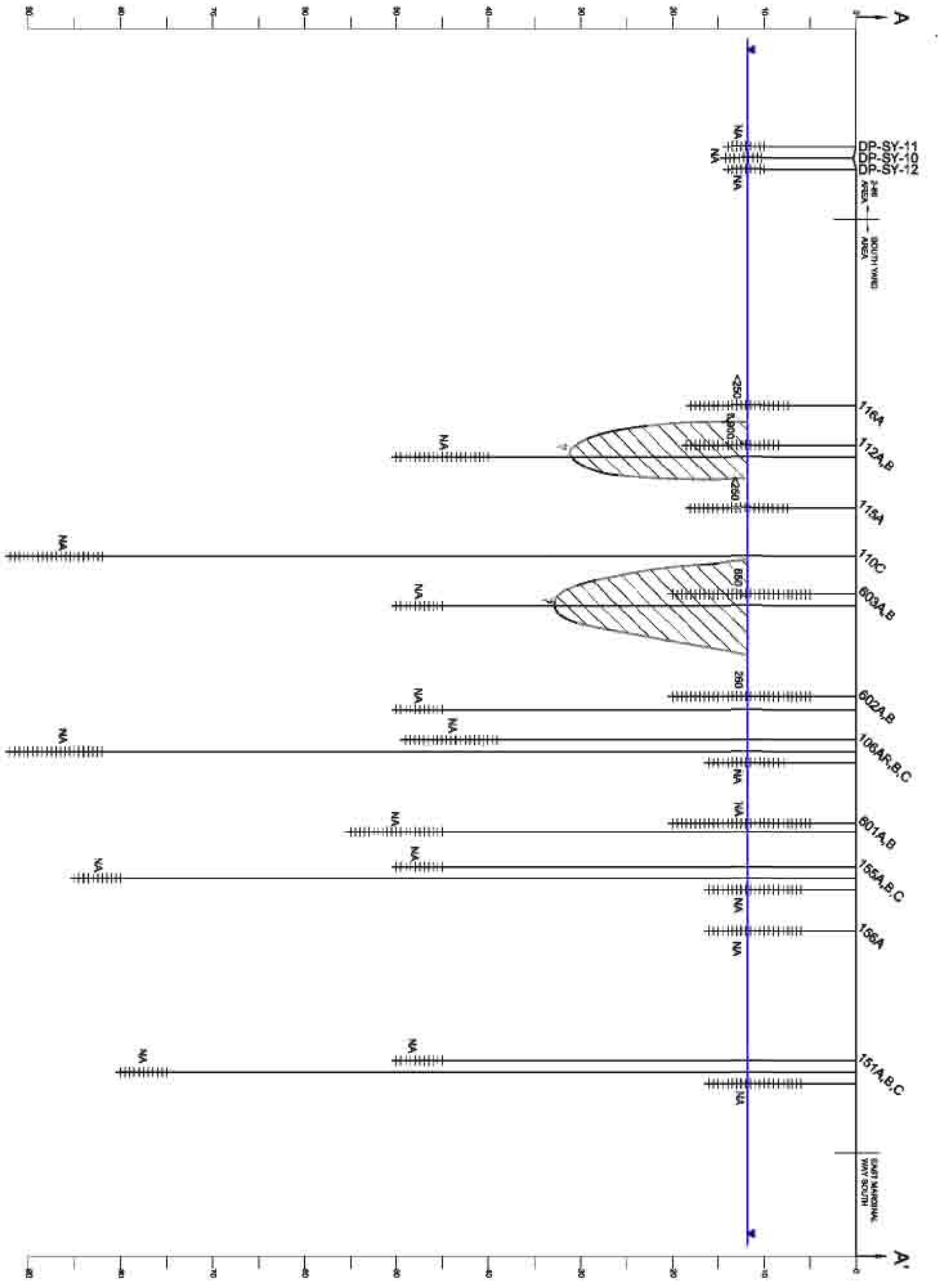
KEY:
MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
PROPERTY BOUNDARY
AREA BOUNDARY
AREA OF A LEVEL GROUNDWATER ABOVE SCREENING LEVEL
NA NOT ANALYZED
MAP PROJECTION: WASHINGTON STATE PLANE, NORTH ZONE, NAD 83
SCALE: 1" = 100'
ENVIRONMENTAL PARTNERS INC
PROJECT
BOEING PLANT 2
PREPARED FOR
THE BOEING COMPANY
BOEING PLANT 2 SOUTH YARD AREA
TPH-DIESEL RANGE CONCENTRATIONS (µg/L)
LEVEL A GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 500 µg/L
LOCATION
7725 EAST MARGINAL WAY
SEATTLE/TUKWILA, WASHINGTON
SHEET
1 of 1
DRAWN BY
HDC
REVIEWED BY
DCK
DATE
03/13/07



KEY:

4.0 - NUMBER INSIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

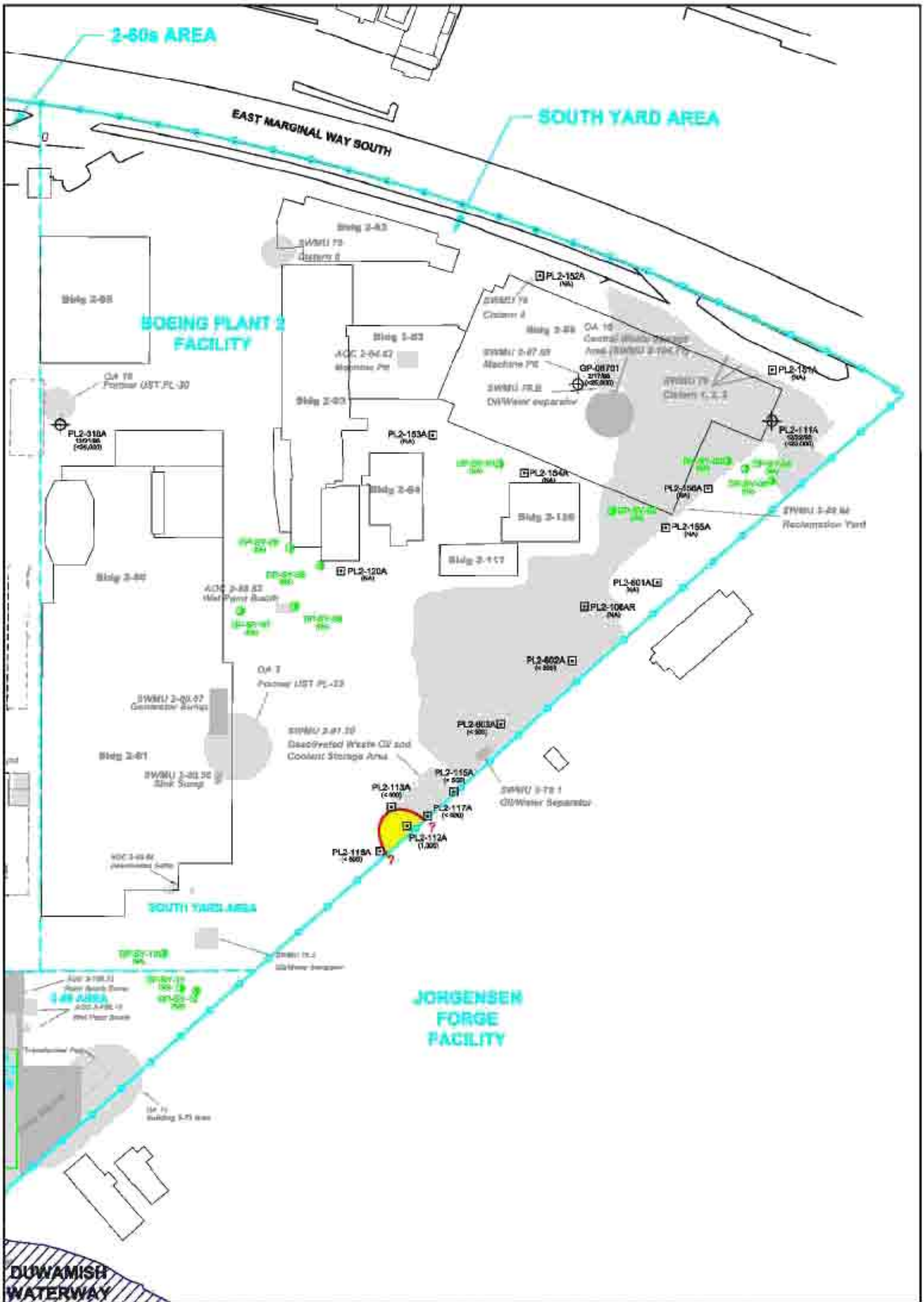
NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
TPH-DIESEL RANGE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 500 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 03/15/07



KEY:

- MONITORING WELL SAMPLED FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- DIRECT PUSH PROBE LOCATION FOR SOUTH YARD DATA GAP ANALYSIS (CONSTITUENT CONCENTRATION, µg/L)
- HISTORICAL SAMPLING LOCATION, SAMPLE DATE, AND CONCENTRATION (CONSTITUENT CONCENTRATION, µg/L)
- PROPERTY BOUNDARY
- AREA BOUNDARY
- AREA OF A-LEVEL GROUNDWATER ABOVE SCREENING LEVEL
- NA – NOT ANALYZED

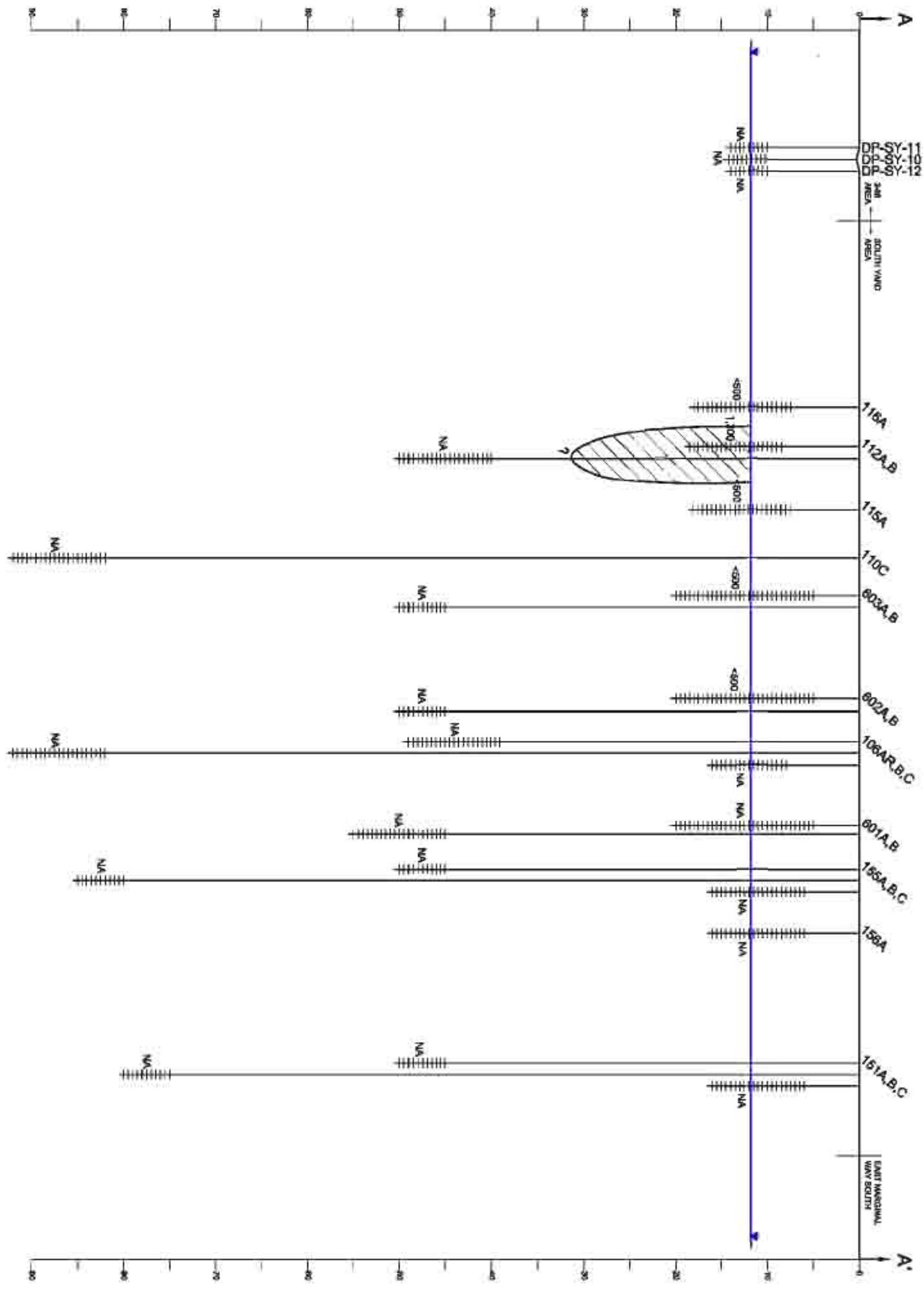
SCALE: 1" = 100'

EPI ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

BOEING PLANT 2 SOUTH YARD AREA
TPH-MOTOR OIL RANGE CONCENTRATIONS (µg/L)
LEVEL A GROUNDWATER
MARCH 2005 SAMPLES
SCREENING LEVEL (2004): 500 µg/L

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	HDC	DCK	03/13/07



KEY:

6.0 - NUMBER BESIDE SCREENED INTERVAL INDICATES CONSTITUENT CONCENTRATION IN MICROGRAMS/LITER (µg/L)

- ESTIMATED AREA ABOVE CONSTITUENT SCREENING LEVEL (2004)

- APPROXIMATE WATER TABLE DEPTH AT TIME OF SAMPLING

NA = NOT ANALYZED

NOTE:
APPROXIMATE VERTICAL SCALE:
1" = 12'
APPROXIMATE HORIZONTAL SCALE:
1" = 100'

SOUTH YARD AREA DATA GAPS
SAMPLING MARCH 2005

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

SOUTH YARD AREA VERTICAL PROFILE
TPH-MOTOR OIL RANGE IN GROUNDWATER
CROSS-SECTION A - A'
SCREENING LEVEL (2004): 500 µg/L

PROJECT	BOEING PLANT 2		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON		
SHEET 1 of 1	DRAWN BY DDC	REVIEWED BY DCK	DATE 09/18/07

South Yard Area Data Gap Investigation COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
DP-SY-01	15 - 15	3/8/2005	36.1	
DP-SY-02	15 - 15	3/7/2005	67	
DP-SY-03	15 - 15	3/7/2005	82.1	
DP-SY-03	15 - 15	3/7/2005	82.8	
DP-SY-04	15 - 15	3/7/2005	86.6	
DP-SY-05	15 - 15	3/7/2005	75.4	
DP-SY-06	15 - 15	3/7/2005	7.6	U
DP-SY-07	15 - 15	3/7/2005	8.2	U
DP-SY-08	15 - 15	3/7/2005	3.4	U
DP-SY-09	15 - 15	3/8/2005	20.8	
DP-SY-10	18 - 18	3/8/2005	9.4	
DP-SY-11	17 - 17	3/8/2005	85	
DP-SY-12	15 - 15	3/8/2005	15.8	
PL2-106AR	8 - 16	3/14/2005	35.1	
PL2-106B	39 - 49	3/14/2005	0.6	
PL2-106C	82.5 - 92.5	3/14/2005	4	
PL2-110C	82 - 92	3/16/2005	6	
PL2-112A	8.5 - 18.5	3/16/2005	58.6	
PL2-112A	8.5 - 18.5	3/16/2005	59.1	
PL2-112B	40 - 50	3/16/2005	0.7	
PL2-113A	8 - 18	3/16/2005	8.9	
PL2-115A	7.5 - 17.7	3/15/2005	0.2	U
PL2-116A	7.5 - 17.8	3/16/2005	22.2	
PL2-117A	7.9 - 17.9	3/16/2005	40.3	
PL2-120A	8 - 18	3/10/2005	3.8	
PL2-151A	6 - 16	3/11/2005	4.5	
PL2-151B	45 - 50	3/11/2005	4.4	
PL2-151C	75 - 80	3/11/2005	5	
PL2-152A	6 - 16	3/15/2005	0.4	
PL2-152B	45 - 50	3/15/2005	6.8	
PL2-152C	80 - 85	3/15/2005	1.4	
PL2-153A	6 - 16	3/9/2005	2.4	
PL2-153B	45 - 50	3/9/2005	3	
PL2-153C	80 - 85	3/9/2005	16	
PL2-154A	6 - 16	3/10/2005	21.3	
PL2-154B	45 - 50	3/10/2005	3.2	
PL2-154C	80 - 85	3/10/2005	2	U
PL2-155A	6 - 16	3/14/2005	94	
PL2-155A	6 - 16	3/14/2005	97.9	
PL2-155B	45 - 50	3/14/2005	3.3	
PL2-155C	80 - 85	3/14/2005	9	
PL2-156A	6 - 16	3/11/2005	98.8	
PL2-156A	6 - 16	3/11/2005	99.8	
PL2-601A	5 - 20	3/14/2005	12	
PL2-601B	45 - 50	3/15/2005	6.6	
PL2-602A	6 - 21	3/15/2005	30.3	

South Yard Area Data Gap Investigation COC Results
Arsenic (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Arsenic - 2004 Groundwater Screening Level = 0.2 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	1.1	
PL2-603A	6 - 21	3/15/2005	12.7	
PL2-603B	44.5 - 49.5	3/15/2005	2	

South Yard Area Data Gap Investigation COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.5	U
DP-SY-02	15 - 15	3/7/2005	0.5	U
DP-SY-03	15 - 15	3/7/2005	0.5	U
DP-SY-03	15 - 15	3/7/2005	0.5	U
DP-SY-04	15 - 15	3/7/2005	0.5	U
DP-SY-05	15 - 15	3/7/2005	0.5	U
DP-SY-06	15 - 15	3/7/2005	0.5	U
DP-SY-07	15 - 15	3/7/2005	0.5	U
DP-SY-08	15 - 15	3/7/2005	0.5	U
DP-SY-09	15 - 15	3/8/2005	0.5	U
DP-SY-10	18 - 18	3/8/2005	0.5	U
DP-SY-11	17 - 17	3/8/2005	0.5	U
DP-SY-12	15 - 15	3/8/2005	0.5	U
PL2-106AR	8 - 16	3/14/2005	1.2	
PL2-106B	39 - 49	3/14/2005	0.5	U
PL2-106C	82.5 - 92.5	3/14/2005	2	U
PL2-110C	82 - 92	3/16/2005	2	U
PL2-112A	8.5 - 18.5	3/16/2005	0.5	U
PL2-112A	8.5 - 18.5	3/16/2005	0.5	U
PL2-112B	40 - 50	3/16/2005	0.5	U
PL2-113A	8 - 18	3/16/2005	0.5	U
PL2-115A	7.5 - 17.7	3/15/2005	1.3	
PL2-116A	7.5 - 17.8	3/16/2005	0.5	U
PL2-117A	7.9 - 17.9	3/16/2005	0.5	U
PL2-120A	8 - 18	3/10/2005	0.6	
PL2-151A	6 - 16	3/11/2005	1	
PL2-151B	45 - 50	3/11/2005	0.5	U
PL2-151C	75 - 80	3/11/2005	2	U
PL2-152A	6 - 16	3/15/2005	0.7	
PL2-152B	45 - 50	3/15/2005	0.5	U
PL2-152C	80 - 85	3/15/2005	0.8	
PL2-153A	6 - 16	3/9/2005	0.7	
PL2-153B	45 - 50	3/9/2005	1	U
PL2-153C	80 - 85	3/9/2005	1	U
PL2-154A	6 - 16	3/10/2005	0.5	U
PL2-154B	45 - 50	3/10/2005	0.5	U
PL2-154C	80 - 85	3/10/2005	2	U
PL2-155A	6 - 16	3/14/2005	0.8	
PL2-155A	6 - 16	3/14/2005	1	
PL2-155B	45 - 50	3/14/2005	0.5	U
PL2-155C	80 - 85	3/14/2005	2	U
PL2-156A	6 - 16	3/11/2005	0.5	U
PL2-156A	6 - 16	3/11/2005	0.5	U
PL2-601A	5 - 20	3/14/2005	0.5	U
PL2-601B	45 - 50	3/15/2005	0.5	U
PL2-602A	6 - 21	3/15/2005	0.8	

South Yard Area Data Gap Investigation COC Results
Copper (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Copper - 2004 Groundwater Screening Level = 3.1 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	0.5	U
PL2-603A	6 - 21	3/15/2005	1	
PL2-603B	44.5 - 49.5	3/15/2005	0.5	U

South Yard Area Data Gap Investigation COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
DP-SY-01	15 - 15	3/8/2005	1	U
DP-SY-02	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	1	U
DP-SY-07	15 - 15	3/7/2005	1	U
DP-SY-08	15 - 15	3/7/2005	1	U
DP-SY-09	15 - 15	3/8/2005	1	U
DP-SY-10	18 - 18	3/8/2005	1	U
DP-SY-11	17 - 17	3/8/2005	1	U
DP-SY-12	15 - 15	3/8/2005	1	U
PL2-106AR	8 - 16	3/14/2005	1	U
PL2-106B	39 - 49	3/14/2005	1	U
PL2-106C	82.5 - 92.5	3/14/2005	5	U
PL2-110C	82 - 92	3/16/2005	5	U
PL2-112A	8.5 - 18.5	3/16/2005	1	U
PL2-112A	8.5 - 18.5	3/16/2005	1	U
PL2-112B	40 - 50	3/16/2005	1	U
PL2-113A	8 - 18	3/16/2005	1	U
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	1	U
PL2-117A	7.9 - 17.9	3/16/2005	1	U
PL2-120A	8 - 18	3/10/2005	1	U
PL2-151A	6 - 16	3/11/2005	1	U
PL2-151B	45 - 50	3/11/2005	1	U
PL2-151C	75 - 80	3/11/2005	5	U
PL2-152A	6 - 16	3/15/2005	1	U
PL2-152B	45 - 50	3/15/2005	1	U
PL2-152C	80 - 85	3/15/2005	1	U
PL2-153A	6 - 16	3/9/2005	1	U
PL2-153B	45 - 50	3/9/2005	2	U
PL2-153C	80 - 85	3/9/2005	2	U
PL2-154A	6 - 16	3/10/2005	1	U
PL2-154B	45 - 50	3/10/2005	1	U
PL2-154C	80 - 85	3/10/2005	5	U
PL2-155A	6 - 16	3/14/2005	1	U
PL2-155A	6 - 16	3/14/2005	1	U
PL2-155B	45 - 50	3/14/2005	1	U
PL2-155C	80 - 85	3/14/2005	5	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-601A	5 - 20	3/14/2005	1	U
PL2-601B	45 - 50	3/15/2005	1	U
PL2-602A	6 - 21	3/15/2005	1	U

South Yard Area Data Gap Investigation COC Results
Lead (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Lead - 2004 Groundwater Screening Level = 8.1 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	1	U
PL2-603A	6 - 21	3/15/2005	1	U
PL2-603B	44.5 - 49.5	3/15/2005	1	U

South Yard Area Data Gap Investigation COC Results
Manganese (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Manganese - 2004 Groundwater Screening Level = 100 µg/L				
DP-SY-01	15 - 15	3/8/2005	1250	
DP-SY-02	15 - 15	3/7/2005	4300	
DP-SY-03	15 - 15	3/7/2005	2300	
DP-SY-03	15 - 15	3/7/2005	2310	
DP-SY-04	15 - 15	3/7/2005	6930	
DP-SY-05	15 - 15	3/7/2005	4590	
DP-SY-06	15 - 15	3/7/2005	852	
DP-SY-07	15 - 15	3/7/2005	903	
DP-SY-08	15 - 15	3/7/2005	673	
DP-SY-09	15 - 15	3/8/2005	1780	
DP-SY-10	18 - 18	3/8/2005	2290	
DP-SY-11	17 - 17	3/8/2005	1260	
DP-SY-12	15 - 15	3/8/2005	2210	
PL2-106AR	8 - 16	3/14/2005	1440	
PL2-106B	39 - 49	3/14/2005	1010	
PL2-106C	82.5 - 92.5	3/14/2005	255	
PL2-110C	82 - 92	3/16/2005	280	
PL2-112A	8.5 - 18.5	3/16/2005	2120	
PL2-112A	8.5 - 18.5	3/16/2005	2170	
PL2-112B	40 - 50	3/16/2005	540	
PL2-113A	8 - 18	3/16/2005	612	
PL2-115A	7.5 - 17.7	3/15/2005	90	
PL2-116A	7.5 - 17.8	3/16/2005	4200	
PL2-117A	7.9 - 17.9	3/16/2005	1520	
PL2-120A	8 - 18	3/10/2005	893	
PL2-151A	6 - 16	3/11/2005	854	
PL2-151B	45 - 50	3/11/2005	849	
PL2-151C	75 - 80	3/11/2005	783	
PL2-152A	6 - 16	3/15/2005	495	
PL2-152B	45 - 50	3/15/2005	389	
PL2-152C	80 - 85	3/15/2005	239	
PL2-153A	6 - 16	3/9/2005	594	
PL2-153B	45 - 50	3/9/2005	273	
PL2-153C	80 - 85	3/9/2005	472	
PL2-154A	6 - 16	3/10/2005	2070	
PL2-154B	45 - 50	3/10/2005	374	
PL2-154C	80 - 85	3/10/2005	351	
PL2-155A	6 - 16	3/14/2005	3800	
PL2-155A	6 - 16	3/14/2005	3810	
PL2-155B	45 - 50	3/14/2005	530	
PL2-155C	80 - 85	3/14/2005	427	
PL2-156A	6 - 16	3/11/2005	4820	
PL2-156A	6 - 16	3/11/2005	4890	
PL2-601A	5 - 20	3/14/2005	2400	
PL2-601B	45 - 50	3/15/2005	442	
PL2-602A	6 - 21	3/15/2005	3170	

South Yard Area Data Gap Investigation COC Results
Manganese (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Manganese - 2004 Groundwater Screening Level = 100 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	261	
PL2-603A	6 - 21	3/15/2005	3170	
PL2-603B	44.5 - 49.5	3/15/2005	361	

South Yard Area Data Gap Investigation COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.025	U
DP-SY-02	15 - 15	3/7/2005	0.025	UJ
DP-SY-03	15 - 15	3/7/2005	0.025	UJ
DP-SY-03	15 - 15	3/7/2005	0.025	UJ
DP-SY-04	15 - 15	3/7/2005	0.025	UJ
DP-SY-05	15 - 15	3/7/2005	0.025	UJ
DP-SY-06	15 - 15	3/7/2005	0.025	UJ
DP-SY-07	15 - 15	3/7/2005	0.025	UJ
DP-SY-08	15 - 15	3/7/2005	0.025	UJ
DP-SY-09	15 - 15	3/8/2005	0.025	U
DP-SY-10	18 - 18	3/8/2005	0.025	U
DP-SY-11	17 - 17	3/8/2005	0.025	U
DP-SY-12	15 - 15	3/8/2005	0.025	U
PL2-106AR	8 - 16	3/14/2005	0.025	U
PL2-106B	39 - 49	3/14/2005	0.025	U
PL2-106C	82.5 - 92.5	3/14/2005	0.025	U
PL2-110C	82 - 92	3/16/2005	0.025	U
PL2-112A	8.5 - 18.5	3/16/2005	0.025	U
PL2-112A	8.5 - 18.5	3/16/2005	0.025	U
PL2-112B	40 - 50	3/16/2005	0.025	U
PL2-113A	8 - 18	3/16/2005	0.025	U
PL2-115A	7.5 - 17.7	3/15/2005	0.025	U
PL2-116A	7.5 - 17.8	3/16/2005	0.025	U
PL2-117A	7.9 - 17.9	3/16/2005	0.025	U
PL2-120A	8 - 18	3/10/2005	0.025	U
PL2-151A	6 - 16	3/11/2005	0.025	U
PL2-151B	45 - 50	3/11/2005	0.025	U
PL2-151C	75 - 80	3/11/2005	0.025	U
PL2-152A	6 - 16	3/15/2005	0.025	U
PL2-152B	45 - 50	3/15/2005	0.025	U
PL2-152C	80 - 85	3/15/2005	0.025	U
PL2-153A	6 - 16	3/9/2005	0.025	U
PL2-153B	45 - 50	3/9/2005	0.025	U
PL2-153C	80 - 85	3/9/2005	0.025	U
PL2-154A	6 - 16	3/10/2005	0.0604	
PL2-154B	45 - 50	3/10/2005	0.025	U
PL2-154C	80 - 85	3/10/2005	0.025	U
PL2-155A	6 - 16	3/14/2005	0.025	U
PL2-155A	6 - 16	3/14/2005	0.025	U
PL2-155B	45 - 50	3/14/2005	0.025	U
PL2-155C	80 - 85	3/14/2005	0.025	U
PL2-156A	6 - 16	3/11/2005	0.025	U
PL2-156A	6 - 16	3/11/2005	0.025	U
PL2-601A	5 - 20	3/14/2005	0.025	U
PL2-601B	45 - 50	3/15/2005	0.025	U
PL2-602A	6 - 21	3/15/2005	0.025	U

South Yard Area Data Gap Investigation COC Results
Mercury (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Mercury - 2004 Groundwater Screening Level = 0.025 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	0.025	U
PL2-603A	6 - 21	3/15/2005	0.025	U
PL2-603B	44.5 - 49.5	3/15/2005	0.025	U
PL2-603B	44.5 - 49.5	3/15/2005	0.025	U

South Yard Area Data Gap Investigation COC Results
Nickel (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Nickel - 2004 Groundwater Screening Level = 8.2 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.6	
DP-SY-02	15 - 15	3/7/2005	2.1	
DP-SY-03	15 - 15	3/7/2005	1.2	
DP-SY-03	15 - 15	3/7/2005	1.2	
DP-SY-04	15 - 15	3/7/2005	2.2	
DP-SY-05	15 - 15	3/7/2005	1.7	
DP-SY-06	15 - 15	3/7/2005	1.1	
DP-SY-07	15 - 15	3/7/2005	1.8	
DP-SY-08	15 - 15	3/7/2005	1.1	
DP-SY-09	15 - 15	3/8/2005	1	
DP-SY-10	18 - 18	3/8/2005	1.8	
DP-SY-11	17 - 17	3/8/2005	4.9	
DP-SY-12	15 - 15	3/8/2005	2.5	
PL2-106AR	8 - 16	3/14/2005	1.8	
PL2-106B	39 - 49	3/14/2005	1.1	
PL2-106C	82.5 - 92.5	3/14/2005	7	
PL2-110C	82 - 92	3/16/2005	5	
PL2-112A	8.5 - 18.5	3/16/2005	2	
PL2-112A	8.5 - 18.5	3/16/2005	2.2	
PL2-112B	40 - 50	3/16/2005	2.4	
PL2-113A	8 - 18	3/16/2005	3.8	
PL2-115A	7.5 - 17.7	3/15/2005	1.2	
PL2-116A	7.5 - 17.8	3/16/2005	0.6	
PL2-117A	7.9 - 17.9	3/16/2005	3.9	
PL2-120A	8 - 18	3/10/2005	1.3	
PL2-151A	6 - 16	3/11/2005	3	
PL2-151B	45 - 50	3/11/2005	0.9	
PL2-151C	75 - 80	3/11/2005	4	
PL2-152A	6 - 16	3/15/2005	1.9	
PL2-152B	45 - 50	3/15/2005	0.9	
PL2-152C	80 - 85	3/15/2005	3.1	
PL2-153A	6 - 16	3/9/2005	0.6	
PL2-153B	45 - 50	3/9/2005	2	
PL2-153C	80 - 85	3/9/2005	2	
PL2-154A	6 - 16	3/10/2005	0.8	
PL2-154B	45 - 50	3/10/2005	0.9	
PL2-154C	80 - 85	3/10/2005	4	
PL2-155A	6 - 16	3/14/2005	1	
PL2-155A	6 - 16	3/14/2005	1.2	
PL2-155B	45 - 50	3/14/2005	0.5	
PL2-155C	80 - 85	3/14/2005	6	
PL2-156A	6 - 16	3/11/2005	1	
PL2-156A	6 - 16	3/11/2005	1.1	
PL2-601A	5 - 20	3/14/2005	2.6	
PL2-601B	45 - 50	3/15/2005	1.5	
PL2-602A	6 - 21	3/15/2005	2.8	

South Yard Area Data Gap Investigation COC Results
Nickel (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Nickel - 2004 Groundwater Screening Level = 8.2 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	2.1	
PL2-603A	6 - 21	3/15/2005	2.7	
PL2-603B	44.5 - 49.5	3/15/2005	1.7	

South Yard Area Data Gap Investigation COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
DP-SY-01	15 - 15	3/8/2005	50	U
DP-SY-02	15 - 15	3/7/2005	50	U
DP-SY-03	15 - 15	3/7/2005	50	U
DP-SY-03	15 - 15	3/7/2005	50	U
DP-SY-04	15 - 15	3/7/2005	50	U
DP-SY-05	15 - 15	3/7/2005	50	U
DP-SY-06	15 - 15	3/7/2005	50	U
DP-SY-07	15 - 15	3/7/2005	50	U
DP-SY-08	15 - 15	3/7/2005	50	U
DP-SY-09	15 - 15	3/8/2005	50	U
DP-SY-10	18 - 18	3/8/2005	50	U
DP-SY-11	17 - 17	3/8/2005	50	U
DP-SY-12	15 - 15	3/8/2005	50	U
PL2-106AR	8 - 16	3/14/2005	50	U
PL2-106B	39 - 49	3/14/2005	50	U
PL2-106C	82.5 - 92.5	3/14/2005	100	U
PL2-110C	82 - 92	3/16/2005	100	U
PL2-112A	8.5 - 18.5	3/16/2005	50	U
PL2-112A	8.5 - 18.5	3/16/2005	50	U
PL2-112B	40 - 50	3/16/2005	50	U
PL2-113A	8 - 18	3/16/2005	50	U
PL2-115A	7.5 - 17.7	3/15/2005	50	U
PL2-116A	7.5 - 17.8	3/16/2005	50	U
PL2-117A	7.9 - 17.9	3/16/2005	50	U
PL2-120A	8 - 18	3/10/2005	50	U
PL2-151A	6 - 16	3/11/2005	50	U
PL2-151B	45 - 50	3/11/2005	50	U
PL2-151C	75 - 80	3/11/2005	50	U
PL2-152A	6 - 16	3/15/2005	50	U
PL2-152B	45 - 50	3/15/2005	50	U
PL2-152C	80 - 85	3/15/2005	50	U
PL2-153A	6 - 16	3/9/2005	50	U
PL2-153B	45 - 50	3/9/2005	50	U
PL2-153C	80 - 85	3/9/2005	50	U
PL2-154A	6 - 16	3/10/2005	50	U
PL2-154B	45 - 50	3/10/2005	50	U
PL2-154C	80 - 85	3/10/2005	50	U
PL2-155A	6 - 16	3/14/2005	50	U
PL2-155A	6 - 16	3/14/2005	50	U
PL2-155B	45 - 50	3/14/2005	50	U
PL2-155C	80 - 85	3/14/2005	100	U
PL2-156A	6 - 16	3/11/2005	50	U
PL2-156A	6 - 16	3/11/2005	50	U
PL2-601A	5 - 20	3/14/2005	50	U
PL2-601B	45 - 50	3/15/2005	50	U
PL2-602A	6 - 21	3/15/2005	50	U

South Yard Area Data Gap Investigation COC Results
Selenium (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Selenium - 2004 Groundwater Screening Level = 71 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	50	U
PL2-603A	6 - 21	3/15/2005	50	U
PL2-603B	44.5 - 49.5	3/15/2005	50	U

South Yard Area Data Gap Investigation COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
DP-SY-01	15 - 15	3/8/2005	11	
DP-SY-02	15 - 15	3/7/2005	20	
DP-SY-03	15 - 15	3/7/2005	6	U
DP-SY-03	15 - 15	3/7/2005	6	U
DP-SY-04	15 - 15	3/7/2005	24	
DP-SY-05	15 - 15	3/7/2005	23	
DP-SY-06	15 - 15	3/7/2005	8	
DP-SY-07	15 - 15	3/7/2005	8	
DP-SY-08	15 - 15	3/7/2005	7	
DP-SY-09	15 - 15	3/8/2005	15	
DP-SY-10	18 - 18	3/8/2005	15	
DP-SY-11	17 - 17	3/8/2005	45	
DP-SY-12	15 - 15	3/8/2005	21	U
PL2-106AR	8 - 16	3/14/2005	6	U
PL2-106B	39 - 49	3/14/2005	34	
PL2-106C	82.5 - 92.5	3/14/2005	10	U
PL2-110C	82 - 92	3/16/2005	10	U
PL2-112A	8.5 - 18.5	3/16/2005	6	U
PL2-112A	8.5 - 18.5	3/16/2005	6	U
PL2-112B	40 - 50	3/16/2005	6	U
PL2-113A	8 - 18	3/16/2005	6	U
PL2-115A	7.5 - 17.7	3/15/2005	6	U
PL2-116A	7.5 - 17.8	3/16/2005	6	U
PL2-117A	7.9 - 17.9	3/16/2005	18	
PL2-120A	8 - 18	3/10/2005	6	U
PL2-151A	6 - 16	3/11/2005	6	U
PL2-151B	45 - 50	3/11/2005	6	U
PL2-151C	75 - 80	3/11/2005	6	U
PL2-152A	6 - 16	3/15/2005	16	
PL2-152B	45 - 50	3/15/2005	6	U
PL2-152C	80 - 85	3/15/2005	6	U
PL2-153A	6 - 16	3/9/2005	6	U
PL2-153B	45 - 50	3/9/2005	6	U
PL2-153C	80 - 85	3/9/2005	6	U
PL2-154A	6 - 16	3/10/2005	6	U
PL2-154B	45 - 50	3/10/2005	6	U
PL2-154C	80 - 85	3/10/2005	6	U
PL2-155A	6 - 16	3/14/2005	6	U
PL2-155A	6 - 16	3/14/2005	6	U
PL2-155B	45 - 50	3/14/2005	6	U
PL2-155C	80 - 85	3/14/2005	10	U
PL2-156A	6 - 16	3/11/2005	6	U
PL2-156A	6 - 16	3/11/2005	6	U
PL2-601A	5 - 20	3/14/2005	6	U
PL2-601B	45 - 50	3/15/2005	6	U
PL2-602A	6 - 21	3/15/2005	6	U

South Yard Area Data Gap Investigation COC Results
Zinc (Dissolved) Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Zinc - 2004 Groundwater Screening Level = 81 µg/L				
PL2-602B	44.5 - 49.5	3/15/2005	717	
PL2-603A	6 - 21	3/15/2005	6	U
PL2-603B	44.5 - 49.5	3/15/2005	382	

South Yard Area Data Gap Investigation COC Results
2,4-Dimethylphenol Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
2,4-Dimethylphenol - 2004 Groundwater Screening Level = 273 µg/L				
DP-SY-01	15 - 15	3/8/2005	1	U
DP-SY-02	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	1	U
DP-SY-07	15 - 15	3/7/2005	1	U
DP-SY-08	15 - 15	3/7/2005	1	U
DP-SY-09	15 - 15	3/8/2005	1	U
PL2-112A	8.5 - 18.5	3/16/2005	97	
PL2-112A	8.5 - 18.5	3/16/2005	100	E
PL2-113A	8 - 18	3/16/2005	1	U
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	1	U
PL2-117A	7.9 - 17.9	3/16/2005	70	
PL2-117A	7.9 - 17.9	3/16/2005	77	
PL2-120A	8 - 18	3/10/2005	1	U
PL2-151A	6 - 16	5/20/2005	1	U
PL2-152A	6 - 16	5/20/2005	1	U
PL2-153A	6 - 16	3/9/2005	1	U
PL2-154A	6 - 16	3/10/2005	1	U
PL2-155A	6 - 16	3/14/2005	1	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-602A	6 - 21	3/15/2005	1	U
PL2-603A	6 - 21	3/15/2005	1	U

South Yard Area Data Gap Investigation COC Results
bis(2-Ethylhexyl)phthalate Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
bis(2-Ethylhexyl)phthalate - 2004 Groundwater Screening Level = 3 µg/L				
DP-SY-01	15 - 15	3/8/2005	1	U
DP-SY-02	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	1	U
DP-SY-07	15 - 15	3/7/2005	1	U
DP-SY-08	15 - 15	3/7/2005	1	U
DP-SY-09	15 - 15	3/8/2005	1	U
PL2-112A	8.5 - 18.5	3/16/2005	1	U
PL2-112A	8.5 - 18.5	3/16/2005	60	U
PL2-113A	8 - 18	3/16/2005	1	U
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	1	U
PL2-117A	7.9 - 17.9	3/16/2005	1	U
PL2-117A	7.9 - 17.9	3/16/2005	30	U
PL2-120A	8 - 18	3/10/2005	1	U
PL2-151A	6 - 16	5/20/2005	1	U
PL2-152A	6 - 16	5/20/2005	1	U
PL2-153A	6 - 16	3/9/2005	1	U
PL2-154A	6 - 16	3/10/2005	1	U
PL2-155A	6 - 16	3/14/2005	1	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-602A	6 - 21	3/15/2005	1	U
PL2-603A	6 - 21	3/15/2005	1	U

South Yard Area Data Gap Investigation COC Results
Aroclor 1254 Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Aroclor 1254 - 2004 Groundwater Screening Level = 0.01 µg/L				
DP-SY-01	15 - 15	3/8/2005	1	U
DP-SY-02	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	1	U
DP-SY-07	15 - 15	3/7/2005	1	U
DP-SY-08	15 - 15	3/7/2005	1	U
DP-SY-09	15 - 15	3/8/2005	1	U
DP-SY-10	18 - 18	3/8/2005	1	U
DP-SY-11	19 - 19	5/20/2005	1	U
DP-SY-12	15 - 15	5/20/2005	1	U
PL2-112A	8.5 - 18.5	3/16/2005	1	U
PL2-113A	8 - 18	3/16/2005	1	U
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	1	U
PL2-117A	7.9 - 17.9	3/16/2005	1	U
PL2-120A	8 - 18	3/10/2005	1	U
PL2-151A	6 - 16	5/20/2005	1	U
PL2-152A	6 - 16	3/15/2005	1	U
PL2-152B	45 - 50	3/15/2005	1	U
PL2-153A	6 - 16	3/9/2005	1	U
PL2-154A	6 - 16	3/10/2005	1	U
PL2-155A	6 - 16	3/14/2005	1	U
PL2-155A	6 - 16	3/14/2005	1	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-156A	6 - 16	3/11/2005	1	U
PL2-601A	5 - 20	3/14/2005	1	U
PL2-602A	6 - 21	3/15/2005	1	U
PL2-603A	6 - 21	3/15/2005	1	U

South Yard Area Data Gap Investigation COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.2	U
DP-SY-02	15 - 15	3/7/2005	0.8	
DP-SY-03	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	0.2	U
DP-SY-07	15 - 15	3/7/2005	0.2	U
DP-SY-08	15 - 15	3/7/2005	0.2	U
DP-SY-09	15 - 15	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	2	U
DP-SY-11	17 - 17	3/8/2005	0.3	
DP-SY-12	15 - 15	3/8/2005	0.2	U
PL2-106AR	8 - 16	3/14/2005	0.3	
PL2-106B	39 - 49	3/14/2005	0.2	U
PL2-106C	82.5 - 92.5	3/14/2005	0.2	UJ
PL2-110C	82 - 92	3/16/2005	0.2	UJ
PL2-112A	8.5 - 18.5	3/16/2005	1	
PL2-112A	8.5 - 18.5	3/16/2005	1.1	
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112B	40 - 50	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	4.6	
PL2-113A	8 - 18	3/16/2005	5.3	
PL2-115A	7.5 - 17.7	3/15/2005	0.2	U
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	0.2	U
PL2-117A	7.9 - 17.9	3/16/2005	0.2	U
PL2-120A	8 - 18	3/10/2005	0.2	U
PL2-151A	6 - 16	3/11/2005	0.2	U
PL2-151B	45 - 50	3/11/2005	0.2	U
PL2-151C	75 - 80	3/11/2005	0.2	U
PL2-152A	6 - 16	3/15/2005	0.2	U
PL2-152B	45 - 50	3/15/2005	0.2	U
PL2-152C	80 - 85	3/15/2005	0.2	UJ
PL2-153A	6 - 16	3/9/2005	0.2	U
PL2-153B	45 - 50	3/9/2005	0.2	UJ
PL2-153C	80 - 85	3/9/2005	0.2	UJ
PL2-154A	6 - 16	3/10/2005	0.2	U
PL2-154B	45 - 50	3/10/2005	0.2	U
PL2-154C	80 - 85	3/10/2005	0.2	UJ
PL2-155A	6 - 16	3/14/2005	0.8	
PL2-155A	6 - 16	3/14/2005	0.8	
PL2-155B	45 - 50	3/14/2005	0.2	U
PL2-155C	80 - 85	3/14/2005	0.2	UJ

South Yard Area Data Gap Investigation COC Results
Benzene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Benzene - 2004 Groundwater Screening Level = 4.48 µg/L				
PL2-156A	6 - 16	3/11/2005	0.4	
PL2-156A	6 - 16	3/11/2005	0.4	
PL2-601A	5 - 20	3/14/2005	0.2	U
PL2-601B	45 - 50	3/15/2005	0.2	U
PL2-602A	6 - 21	3/15/2005	2	
PL2-602B	44.5 - 49.5	3/15/2005	0.2	U
PL2-603A	6 - 21	3/15/2005	5.6	
PL2-603A	6 - 21	3/15/2005	5.7	
PL2-603B	44.5 - 49.5	3/15/2005	0.2	U

South Yard Area Data Gap Investigation COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.2	U
DP-SY-02	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	0.2	U
DP-SY-07	15 - 15	3/7/2005	0.2	U
DP-SY-08	15 - 15	3/7/2005	0.2	U
DP-SY-09	15 - 15	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	0.4	
DP-SY-10	18 - 18	3/8/2005	2	U
DP-SY-11	17 - 17	3/8/2005	0.2	U
DP-SY-12	15 - 15	3/8/2005	0.2	U
PL2-106AR	8 - 16	3/14/2005	0.2	U
PL2-106B	39 - 49	3/14/2005	0.2	U
PL2-106C	82.5 - 92.5	3/14/2005	0.2	UJ
PL2-110C	82 - 92	3/16/2005	0.2	UJ
PL2-112A	8.5 - 18.5	3/16/2005	1.7	
PL2-112A	8.5 - 18.5	3/16/2005	1.9	
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112B	40 - 50	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	1.1	
PL2-113A	8 - 18	3/16/2005	1.3	
PL2-115A	7.5 - 17.7	3/15/2005	0.2	
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	0.2	U
PL2-117A	7.9 - 17.9	3/16/2005	0.2	U
PL2-120A	8 - 18	3/10/2005	0.2	U
PL2-151A	6 - 16	3/11/2005	0.2	U
PL2-151B	45 - 50	3/11/2005	0.2	U
PL2-151C	75 - 80	3/11/2005	0.2	U
PL2-152A	6 - 16	3/15/2005	0.2	U
PL2-152B	45 - 50	3/15/2005	0.2	U
PL2-152C	80 - 85	3/15/2005	0.2	UJ
PL2-153A	6 - 16	3/9/2005	0.2	U
PL2-153B	45 - 50	3/9/2005	0.2	UJ
PL2-153C	80 - 85	3/9/2005	0.2	UJ
PL2-154A	6 - 16	3/10/2005	0.2	U
PL2-154B	45 - 50	3/10/2005	0.2	U
PL2-154C	80 - 85	3/10/2005	0.2	UJ
PL2-155A	6 - 16	3/14/2005	0.2	U
PL2-155A	6 - 16	3/14/2005	0.2	U
PL2-155B	45 - 50	3/14/2005	0.2	U
PL2-155C	80 - 85	3/14/2005	0.2	UJ

South Yard Area Data Gap Investigation COC Results
1,1-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1-Dichloroethene - 2004 Screening Level = 0.382 µg/L				
PL2-156A	6 - 16	3/11/2005	0.2	U
PL2-156A	6 - 16	3/11/2005	0.2	U
PL2-601A	5 - 20	3/14/2005	0.2	U
PL2-601B	45 - 50	3/15/2005	0.2	U
PL2-602A	6 - 21	3/15/2005	0.2	U
PL2-602B	44.5 - 49.5	3/15/2005	0.2	U
PL2-603A	6 - 21	3/15/2005	0.2	
PL2-603A	6 - 21	3/15/2005	0.4	U
PL2-603B	44.5 - 49.5	3/15/2005	0.2	U

South Yard Area Data Gap Investigation COC Results
cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.2	U
DP-SY-02	15 - 15	3/7/2005	2	
DP-SY-03	15 - 15	3/7/2005	0.7	
DP-SY-03	15 - 15	3/7/2005	2	
DP-SY-04	15 - 15	3/7/2005	3.8	
DP-SY-05	15 - 15	3/7/2005	8.3	
DP-SY-06	15 - 15	3/7/2005	0.3	
DP-SY-07	15 - 15	3/7/2005	0.2	U
DP-SY-08	15 - 15	3/7/2005	0.4	
DP-SY-09	15 - 15	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	50	ES
DP-SY-10	18 - 18	3/8/2005	83	
DP-SY-11	17 - 17	3/8/2005	1.1	
DP-SY-12	15 - 15	3/8/2005	0.6	
PL2-106AR	8 - 16	3/14/2005	4.2	
PL2-106B	39 - 49	3/14/2005	0.2	U
PL2-106C	82.5 - 92.5	3/14/2005	0.2	UJ
PL2-110C	82 - 92	3/16/2005	0.2	UJ
PL2-112A	8.5 - 18.5	3/16/2005	12	
PL2-112A	8.5 - 18.5	3/16/2005	13	
PL2-112A	8.5 - 18.5	3/16/2005	15	
PL2-112A	8.5 - 18.5	3/16/2005	13	
PL2-112B	40 - 50	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	3.7	
PL2-113A	8 - 18	3/16/2005	3.9	
PL2-115A	7.5 - 17.7	3/15/2005	46	E
PL2-115A	7.5 - 17.7	3/15/2005	49	
PL2-116A	7.5 - 17.8	3/16/2005	1.5	
PL2-117A	7.9 - 17.9	3/16/2005	4.9	
PL2-120A	8 - 18	3/10/2005	0.2	
PL2-151A	6 - 16	3/11/2005	2.8	
PL2-151B	45 - 50	3/11/2005	0.2	U
PL2-151C	75 - 80	3/11/2005	0.2	U
PL2-152A	6 - 16	3/15/2005	1.2	
PL2-152B	45 - 50	3/15/2005	0.2	U
PL2-152C	80 - 85	3/15/2005	0.2	UJ
PL2-153A	6 - 16	3/9/2005	0.2	U
PL2-153B	45 - 50	3/9/2005	0.2	UJ
PL2-153C	80 - 85	3/9/2005	0.2	UJ
PL2-154A	6 - 16	3/10/2005	0.3	
PL2-154B	45 - 50	3/10/2005	0.2	U
PL2-154C	80 - 85	3/10/2005	0.2	UJ
PL2-155A	6 - 16	3/14/2005	1.8	
PL2-155A	6 - 16	3/14/2005	2	
PL2-155B	45 - 50	3/14/2005	0.2	U
PL2-155C	80 - 85	3/14/2005	0.2	UJ

South Yard Area Data Gap Investigation COC Results
cis-1,2-Dichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
cis-1,2-Dichlorethene - 2004 Groundwater Screening Level = 1550 µg/L				
PL2-156A	6 - 16	3/11/2005	0.5	
PL2-156A	6 - 16	3/11/2005	0.6	
PL2-601A	5 - 20	3/14/2005	6.3	
PL2-601B	45 - 50	3/15/2005	0.2	U
PL2-602A	6 - 21	3/15/2005	0.9	
PL2-602B	44.5 - 49.5	3/15/2005	0.2	U
PL2-603A	6 - 21	3/15/2005	6.5	
PL2-603A	6 - 21	3/15/2005	7	
PL2-603B	44.5 - 49.5	3/15/2005	0.2	U

South Yard Area Data Gap Investigation COC Results
Tetrachloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.2	U
DP-SY-02	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	0.2	U
DP-SY-07	15 - 15	3/7/2005	0.2	U
DP-SY-08	15 - 15	3/7/2005	0.2	U
DP-SY-09	15 - 15	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	2	U
DP-SY-11	17 - 17	3/8/2005	0.2	U
DP-SY-12	15 - 15	3/8/2005	0.2	U
PL2-106AR	8 - 16	3/14/2005	0.2	U
PL2-106B	39 - 49	3/14/2005	0.2	U
PL2-106C	82.5 - 92.5	3/14/2005	0.2	UJ
PL2-110C	82 - 92	3/16/2005	0.2	UJ
PL2-112A	8.5 - 18.5	3/16/2005	3.4	
PL2-112A	8.5 - 18.5	3/16/2005	3.8	
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112B	40 - 50	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	1	U
PL2-113A	8 - 18	3/16/2005	1.2	
PL2-115A	7.5 - 17.7	3/15/2005	0.2	
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	0.2	U
PL2-117A	7.9 - 17.9	3/16/2005	0.2	U
PL2-120A	8 - 18	3/10/2005	0.2	U
PL2-151A	6 - 16	3/11/2005	0.2	U
PL2-151B	45 - 50	3/11/2005	0.2	U
PL2-151C	75 - 80	3/11/2005	0.2	U
PL2-152A	6 - 16	3/15/2005	0.2	U
PL2-152B	45 - 50	3/15/2005	0.2	U
PL2-152C	80 - 85	3/15/2005	0.2	UJ
PL2-153A	6 - 16	3/9/2005	0.2	U
PL2-153B	45 - 50	3/9/2005	0.2	UJ
PL2-153C	80 - 85	3/9/2005	0.2	UJ
PL2-154A	6 - 16	3/10/2005	0.2	U
PL2-154B	45 - 50	3/10/2005	0.2	U
PL2-154C	80 - 85	3/10/2005	0.2	UJ
PL2-155A	6 - 16	3/14/2005	0.2	U
PL2-155A	6 - 16	3/14/2005	0.2	U
PL2-155B	45 - 50	3/14/2005	0.2	U
PL2-155C	80 - 85	3/14/2005	0.2	UJ

South Yard Area Data Gap Investigation COC Results
Tetrachloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Tetrachloroethene - 2004 Groundwater Screening Level = 0.82 µg/L				
PL2-156A	6 - 16	3/11/2005	0.2	U
PL2-156A	6 - 16	3/11/2005	0.2	U
PL2-601A	5 - 20	3/14/2005	0.2	U
PL2-601B	45 - 50	3/15/2005	0.2	U
PL2-602A	6 - 21	3/15/2005	0.2	U
PL2-602B	44.5 - 49.5	3/15/2005	0.2	U
PL2-603A	6 - 21	3/15/2005	0.2	U
PL2-603A	6 - 21	3/15/2005	0.4	U
PL2-603B	44.5 - 49.5	3/15/2005	0.2	U

South Yard Area Data Gap Investigation COC Results
1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.2	U
DP-SY-02	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	0.2	U
DP-SY-07	15 - 15	3/7/2005	0.2	U
DP-SY-08	15 - 15	3/7/2005	0.2	U
DP-SY-09	15 - 15	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	2	U
DP-SY-11	17 - 17	3/8/2005	0.2	U
DP-SY-12	15 - 15	3/8/2005	0.2	U
PL2-106AR	8 - 16	3/14/2005	0.2	U
PL2-106B	39 - 49	3/14/2005	0.2	U
PL2-106C	82.5 - 92.5	3/14/2005	0.2	UJ
PL2-110C	82 - 92	3/16/2005	0.2	UJ
PL2-112A	8.5 - 18.5	3/16/2005	0.2	U
PL2-112A	8.5 - 18.5	3/16/2005	0.2	U
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112B	40 - 50	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	1	U
PL2-115A	7.5 - 17.7	3/15/2005	0.2	U
PL2-115A	7.5 - 17.7	3/15/2005	1	U
PL2-116A	7.5 - 17.8	3/16/2005	0.2	U
PL2-117A	7.9 - 17.9	3/16/2005	0.2	U
PL2-120A	8 - 18	3/10/2005	0.2	U
PL2-151A	6 - 16	3/11/2005	0.2	U
PL2-151B	45 - 50	3/11/2005	0.2	U
PL2-151C	75 - 80	3/11/2005	0.2	U
PL2-152A	6 - 16	3/15/2005	0.2	U
PL2-152B	45 - 50	3/15/2005	0.2	U
PL2-152C	80 - 85	3/15/2005	0.2	UJ
PL2-153A	6 - 16	3/9/2005	0.2	U
PL2-153B	45 - 50	3/9/2005	0.2	UJ
PL2-153C	80 - 85	3/9/2005	0.2	UJ
PL2-154A	6 - 16	3/10/2005	0.2	U
PL2-154B	45 - 50	3/10/2005	0.2	U
PL2-154C	80 - 85	3/10/2005	0.2	UJ
PL2-155A	6 - 16	3/14/2005	0.2	U
PL2-155A	6 - 16	3/14/2005	0.2	U
PL2-155B	45 - 50	3/14/2005	0.2	U
PL2-155C	80 - 85	3/14/2005	0.2	UJ

South Yard Area Data Gap Investigation COC Results
1,1,2-Trichloroethane Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
1,1,2-Trichloroethane - 2004 Groundwater Screening Level = 5 µg/L				
PL2-156A	6 - 16	3/11/2005	0.2	U
PL2-156A	6 - 16	3/11/2005	0.2	U
PL2-601A	5 - 20	3/14/2005	0.2	U
PL2-601B	45 - 50	3/15/2005	0.2	U
PL2-602A	6 - 21	3/15/2005	0.2	U
PL2-602B	44.5 - 49.5	3/15/2005	0.2	U
PL2-603A	6 - 21	3/15/2005	0.2	U
PL2-603A	6 - 21	3/15/2005	0.4	U
PL2-603B	44.5 - 49.5	3/15/2005	0.2	U

South Yard Area Data Gap Investigation COC Results
Trichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.2	U
DP-SY-02	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	0.2	U
DP-SY-03	15 - 15	3/7/2005	1	U
DP-SY-04	15 - 15	3/7/2005	1	U
DP-SY-05	15 - 15	3/7/2005	1	U
DP-SY-06	15 - 15	3/7/2005	0.2	U
DP-SY-07	15 - 15	3/7/2005	0.2	U
DP-SY-08	15 - 15	3/7/2005	0.2	U
DP-SY-09	15 - 15	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	15	
DP-SY-10	18 - 18	3/8/2005	20	
DP-SY-11	17 - 17	3/8/2005	0.2	U
DP-SY-12	15 - 15	3/8/2005	0.2	U
PL2-106AR	8 - 16	3/14/2005	3	
PL2-106B	39 - 49	3/14/2005	0.2	U
PL2-106C	82.5 - 92.5	3/14/2005	0.2	UJ
PL2-110C	82 - 92	3/16/2005	0.2	UJ
PL2-112A	8.5 - 18.5	3/16/2005	2.6	
PL2-112A	8.5 - 18.5	3/16/2005	2.6	
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112B	40 - 50	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	13	
PL2-113A	8 - 18	3/16/2005	17	E
PL2-115A	7.5 - 17.7	3/15/2005	74	ES
PL2-115A	7.5 - 17.7	3/15/2005	110	
PL2-116A	7.5 - 17.8	3/16/2005	0.2	U
PL2-117A	7.9 - 17.9	3/16/2005	2.4	
PL2-120A	8 - 18	3/10/2005	0.2	U
PL2-151A	6 - 16	3/11/2005	6.4	
PL2-151B	45 - 50	3/11/2005	0.2	U
PL2-151C	75 - 80	3/11/2005	0.2	U
PL2-152A	6 - 16	3/15/2005	1.1	
PL2-152B	45 - 50	3/15/2005	0.2	U
PL2-152C	80 - 85	3/15/2005	0.2	UJ
PL2-153A	6 - 16	3/9/2005	0.2	U
PL2-153B	45 - 50	3/9/2005	0.2	UJ
PL2-153C	80 - 85	3/9/2005	0.2	UJ
PL2-154A	6 - 16	3/10/2005	0.2	U
PL2-154B	45 - 50	3/10/2005	0.2	U
PL2-154C	80 - 85	3/10/2005	0.2	UJ
PL2-155A	6 - 16	3/14/2005	0.2	
PL2-155A	6 - 16	3/14/2005	0.3	
PL2-155B	45 - 50	3/14/2005	0.2	U
PL2-155C	80 - 85	3/14/2005	0.2	UJ

South Yard Area Data Gap Investigation COC Results
Trichloroethene Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Trichloroethene - 2004 Groundwater Screening Level = 0.302 µg/L				
PL2-156A	6 - 16	3/11/2005	0.4	
PL2-156A	6 - 16	3/11/2005	0.4	
PL2-601A	5 - 20	3/14/2005	5	
PL2-601B	45 - 50	3/15/2005	0.2	U
PL2-602A	6 - 21	3/15/2005	0.7	
PL2-602B	44.5 - 49.5	3/15/2005	0.6	
PL2-603A	6 - 21	3/15/2005	0.4	
PL2-603A	6 - 21	3/15/2005	0.4	U
PL2-603B	44.5 - 49.5	3/15/2005	0.2	U

South Yard Area Data Gap Investigation COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
DP-SY-01	15 - 15	3/8/2005	0.9	
DP-SY-02	15 - 15	3/7/2005	10	
DP-SY-03	15 - 15	3/7/2005	7.1	
DP-SY-03	15 - 15	3/7/2005	20	
DP-SY-04	15 - 15	3/7/2005	28	
DP-SY-05	15 - 15	3/7/2005	31	
DP-SY-06	15 - 15	3/7/2005	0.2	U
DP-SY-07	15 - 15	3/7/2005	0.2	U
DP-SY-08	15 - 15	3/7/2005	0.2	U
DP-SY-09	15 - 15	3/8/2005	0.2	U
DP-SY-10	18 - 18	3/8/2005	0.6	
DP-SY-10	18 - 18	3/8/2005	2	U
DP-SY-11	17 - 17	3/8/2005	0.8	
DP-SY-12	15 - 15	3/8/2005	2.5	
PL2-106AR	8 - 16	3/14/2005	14	
PL2-106B	39 - 49	3/14/2005	0.2	U
PL2-106C	82.5 - 92.5	3/14/2005	0.2	UJ
PL2-110C	82 - 92	3/16/2005	0.2	UJ
PL2-112A	8.5 - 18.5	3/16/2005	7	
PL2-112A	8.5 - 18.5	3/16/2005	7.4	
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112A	8.5 - 18.5	3/16/2005	10	U
PL2-112B	40 - 50	3/16/2005	0.2	U
PL2-113A	8 - 18	3/16/2005	5.1	
PL2-113A	8 - 18	3/16/2005	5.3	
PL2-115A	7.5 - 17.7	3/15/2005	4.8	
PL2-115A	7.5 - 17.7	3/15/2005	5.2	
PL2-116A	7.5 - 17.8	3/16/2005	2.8	
PL2-117A	7.9 - 17.9	3/16/2005	4.3	
PL2-120A	8 - 18	3/10/2005	0.2	U
PL2-151A	6 - 16	3/11/2005	0.2	U
PL2-151B	45 - 50	3/11/2005	0.2	U
PL2-151C	75 - 80	3/11/2005	0.2	U
PL2-152A	6 - 16	3/15/2005	2.9	
PL2-152B	45 - 50	3/15/2005	0.2	U
PL2-152C	80 - 85	3/15/2005	0.2	UJ
PL2-153A	6 - 16	3/9/2005	1.2	
PL2-153B	45 - 50	3/9/2005	0.2	UJ
PL2-153C	80 - 85	3/9/2005	0.2	UJ
PL2-154A	6 - 16	3/10/2005	2.9	
PL2-154B	45 - 50	3/10/2005	0.2	U
PL2-154C	80 - 85	3/10/2005	0.2	UJ
PL2-155A	6 - 16	3/14/2005	4.7	
PL2-155A	6 - 16	3/14/2005	5	
PL2-155B	45 - 50	3/14/2005	0.2	U
PL2-155C	80 - 85	3/14/2005	0.2	UJ

South Yard Area Data Gap Investigation COC Results
Vinyl Chloride Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
Vinyl Chloride - 2004 Groundwater Screening Level = 0.73 µg/L				
PL2-156A	6 - 16	3/11/2005	6.7	
PL2-156A	6 - 16	3/11/2005	8.8	
PL2-601A	5 - 20	3/14/2005	1.7	
PL2-601B	45 - 50	3/15/2005	12	
PL2-602A	6 - 21	3/15/2005	8.9	
PL2-602B	44.5 - 49.5	3/15/2005	9.8	
PL2-603A	6 - 21	3/15/2005	22	E
PL2-603A	6 - 21	3/15/2005	24	
PL2-603B	44.5 - 49.5	3/15/2005	3.1	

South Yard Area Data Gap Investigation COC Results
TPH-Diesel Range Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
TPH - Diesel Range - 2004 Groundwater Screening Level = 500 µg/L				
PL2-112A	8.5 - 18.5	3/16/2005	8300	
PL2-112A	8.5 - 18.5	3/16/2005	8900	
PL2-112A	8.5 - 18.5	3/16/2005	9200	E
PL2-112A	8.5 - 18.5	3/16/2005	9800	E
PL2-113A	8 - 18	3/16/2005	280	
PL2-115A	7.5 - 17.7	3/15/2005	250	U
PL2-116A	7.5 - 17.8	3/16/2005	250	U
PL2-117A	7.9 - 17.9	3/16/2005	380	
PL2-602A	6 - 21	5/20/2005	260	
PL2-603A	6 - 21	3/15/2005	650	

South Yard Area Data Gap Investigation COC Results
TPH - Motor Oil Range Concentrations in Groundwater

Sample Location	Sample Interval (ft. bgs)	Sample Date	Concentration (µg/L)	Data Qualifier
TPH - Motor Oil Range - 2004 Groundwater Screening Level = 500 µg/L				
PL2-112A	8.5 - 18.5	3/16/2005	1200	
PL2-112A	8.5 - 18.5	3/16/2005	1300	
PL2-112A	8.5 - 18.5	3/16/2005	2500	U
PL2-112A	8.5 - 18.5	3/16/2005	2500	U
PL2-113A	8 - 18	3/16/2005	500	U
PL2-115A	7.5 - 17.7	3/15/2005	500	U
PL2-116A	7.5 - 17.8	3/16/2005	500	U
PL2-117A	7.9 - 17.9	3/16/2005	500	U
PL2-602A	6 - 21	5/20/2005	500	U
PL2-603A	6 - 21	3/15/2005	500	U

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Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 2 of 2

Prepared for

The Boeing Company
Seattle, Washington

Prepared by

Environmental Partners, Inc.
Golder Associates Inc.

Data Gap Investigation Report Submitted
March 2007

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Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 2 of 2

Attachment F
Soil Data Gaps Investigation and Historic Data with Cross-Sections

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Table of Contents

List of Tables

Table F-1 Screening Levels for Constituents of Concern in Site-wide Soil

Table F-2 Constituents of Concern Detected in South Yard Area Soil

List of Maps and Cross-Sections

Arsenic in Soil, South Yard Area (East): Depth 0 - 1 Foot

Arsenic in Soil, South Yard Area (West): Depth 0 - 1 Foot

Arsenic in Soil, South Yard Area (East): Depth 1 - 6 Feet

Arsenic in Soil, South Yard Area (West): Depth 1 - 6 Feet

Arsenic in Soil, South Yard Area (East): Depth 6 - 12 Feet

Arsenic in Soil, South Yard Area (West): Depth 6 - 12 Feet

Cadmium in Soil, South Yard Area (East): Depth 0 - 1 Foot

Cadmium in Soil, South Yard Area (West): Depth 0 - 1 Foot

Cadmium in Soil, South Yard Area (East): Depth 1 - 6 Feet

Cadmium in Soil, South Yard Area (West): Depth 1 - 6 Feet

Cadmium in Soil, South Yard Area (East): Depth 6 - 12 Feet

Cadmium in Soil, South Yard Area (West): Depth 6 - 12 Feet

Cadmium in Soil, South Yard Area Cross-Section A-A’

Hexavalent Chromium in Soil, South Yard Area (East): Depth 0 – 1 Foot

Hexavalent Chromium in Soil, South Yard Area (West): Depth 0 – 1 Foot

Hexavalent Chromium in Soil, South Yard Area (East): Depth 1 – 6 Feet

Hexavalent Chromium in Soil, South Yard Area (West): Depth 1 – 6 Feet

Hexavalent Chromium in Soil, South Yard Area (East): Depth 6 – 12 Feet

Hexavalent Chromium in Soil, South Yard Area (West): Depth 6 – 12 Feet

Copper in Soil, South Yard Area (East): Depth 0 - 1 Foot

Copper in Soil, South Yard Area (West): Depth 0 - 1 Foot

Copper in Soil, South Yard Area (East): Depth 1 - 6 Feet

Copper in Soil, South Yard Area (West): Depth 1 - 6 Feet

Copper in Soil, South Yard Area (East): Depth 6 - 12 Feet

Copper in Soil, South Yard Area (West): Depth 6 - 12 Feet

Mercury in Soil, South Yard Area (East): Depth 0 - 1 Foot
Mercury in Soil, South Yard Area (West): Depth 0 - 1 Foot
Mercury in Soil, South Yard Area (East): Depth 1 - 6 Feet
Mercury in Soil, South Yard Area (West): Depth 1 - 6 Feet
Mercury in Soil, South Yard Area (East): Depth 6 - 12 Feet
Mercury in Soil, South Yard Area (West): Depth 6 - 12 Feet
Nickel Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot
Nickel Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot
Nickel Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet
Nickel Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet
Nickel Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet
Nickel Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet
Selenium Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot
Selenium Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot
Selenium Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet
Selenium Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet
Selenium Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet
Selenium Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet
Silver Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot
Silver Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot
Silver Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet
Silver Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet
Silver Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet
Silver Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet
Thallium in Soil, South Yard Area (East): Depth 0 - 1 Foot
Thallium in Soil, South Yard Area (West): Depth 0 - 1 Foot
Thallium in Soil, South Yard Area (East): Depth 1 - 6 Feet
Thallium in Soil, South Yard Area (West): Depth 1 - 6 Feet
Thallium in Soil, South Yard Area (East): Depth 6 - 12 Feet
Thallium in Soil, South Yard Area (West): Depth 6 - 12 Feet
Zinc in Soil, South Yard Area (East): Depth 0 - 1 Foot
Zinc in Soil, South Yard Area (West): Depth 0 - 1 Foot

Zinc in Soil, South Yard Area (East): Depth 1 - 6 Feet

Zinc in Soil, South Yard Area (West): Depth 1 - 6 Feet

Zinc in Soil, South Yard Area (East): Depth 6 - 12 Feet

Zinc in Soil, South Yard Area (West): Depth 6 - 12 Feet

Benzo(a)anthracene Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot

Benzo(a)anthracene Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot

Benzo(a)anthracene Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet

Benzo(a)anthracene Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet

Benzo(a)anthracene Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet

Benzo(a)anthracene Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet

Benzo(b)fluoranthene Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot

Benzo(b)fluoranthene Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot

Benzo(b)fluoranthene Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet

Benzo(b)fluoranthene Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet

Benzo(b)fluoranthene Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet

Benzo(b)fluoranthene Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet

Benzo(k)fluoranthene Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot

Benzo(k)fluoranthene Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot

Benzo(k)fluoranthene Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet

Benzo(k)fluoranthene Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet

Benzo(k)fluoranthene Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet

Benzo(k)fluoranthene Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet

Benzo(a)pyrene in Soil, South Yard Area (East): Depth 0 - 1 Foot

Benzo(a)pyrene in Soil, South Yard Area (West): Depth 0 - 1 Foot

Benzo(a)pyrene in Soil, South Yard Area (East): Depth 1 - 6 Feet

Benzo(a)pyrene in Soil, South Yard Area (West): Depth 1 - 6 Feet

Benzo(a)pyrene in Soil, South Yard Area (East): Depth 6 - 12 Feet

Benzo(a)pyrene in Soil, South Yard Area (West): Depth 6 - 12 Feet

Chrysene in Soil, South Yard Area (East): Depth 0 - 1 Foot

Chrysene in Soil, South Yard Area (West): Depth 0 - 1 Foot

Chrysene in Soil, South Yard Area (East): Depth 1 - 6 Feet

Chrysene in Soil, South Yard Area (West): Depth 1 - 6 Feet

Chrysene in Soil, South Yard Area (East): Depth 6 - 12 Feet

Chrysene in Soil, South Yard Area (West): Depth 6 - 12 Feet

Dibenz(a,h)anthracene in Soil, South Yard Area (East): Depth 0 - 1 Foot

Dibenz(a,h)anthracene in Soil, South Yard Area (West): Depth 0 - 1 Foot

Dibenz(a,h)anthracene in Soil, South Yard Area (East): Depth 1 - 6 Feet

Dibenz(a,h)anthracene in Soil, South Yard Area (West): Depth 1 - 6 Feet

Dibenz(a,h)anthracene in Soil, South Yard Area (East): Depth 6 - 12 Feet

Dibenz(a,h)anthracene in Soil, South Yard Area (West): Depth 6 - 12 Feet

Bis(2-ethylhexyl)phthalate in Soil, South Yard Area (East): Depth 0 - 1 Foot

Bis(2-ethylhexyl)phthalate in Soil, South Yard Area (West): Depth 0 - 1 Foot

Bis(2-ethylhexyl)phthalate in Soil, South Yard Area (East): Depth 1 - 6 Feet

Bis(2-ethylhexyl)phthalate in Soil, South Yard Area (West): Depth 1 - 6 Feet

Bis(2-ethylhexyl)phthalate in Soil, South Yard Area (East): Depth 6 - 12 Feet

Bis(2-ethylhexyl)phthalate in Soil, South Yard Area (West): Depth 6 - 12 Feet

Indeno(1,2,3-cd)pyrene Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot

Indeno(1,2,3-cd)pyrene Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot

Indeno(1,2,3-cd)pyrene Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet

Indeno(1,2,3-cd)pyrene Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet

Indeno(1,2,3-cd)pyrene Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet

Indeno(1,2,3-cd)pyrene Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet

Total PCBs in Soil, South Yard Area (East): Depth 0 - 1 Foot

Total PCBs in Soil, South Yard Area (West): Depth 0 - 1 Foot

Total PCBs in Soil, South Yard Area (East): Depth 1 - 6 Feet

Total PCBs in Soil, South Yard Area (West): Depth 1 - 6 Feet

Total PCBs in Soil, South Yard Area (East): Depth 6 - 12 Feet

Total PCBs in Soil, South Yard Area (West): Depth 6 - 12 Feet

Benzene in Soil, South Yard Area (East): Depth 0 - 1 Foot

Benzene in Soil, South Yard Area (West): Depth 0 - 1 Foot

Benzene in Soil, South Yard Area (East): Depth 1 - 6 Feet

Benzene in Soil, South Yard Area (West): Depth 1 - 6 Feet

Benzene in Soil, South Yard Area (East): Depth 6 - 12 Feet

Benzene in Soil, South Yard Area (West): Depth 6 - 12 Feet

1,1-Dichloroethene in Soil, South Yard Area (East): Depth 0 - 1 Foot
1,1-Dichloroethene in Soil, South Yard Area (West): Depth 0 - 1 Foot
1,1-Dichloroethene in Soil, South Yard Area (East): Depth 1 - 6 Feet
1,1-Dichloroethene in Soil, South Yard Area (West): Depth 1 - 6 Feet
1,1-Dichloroethene in Soil, South Yard Area (East): Depth 6 - 12 Feet
1,1-Dichloroethene in Soil, South Yard Area (West): Depth 6 - 12 Feet
cis-1,2-Dichloroethene in Soil, South Yard Area (East): Depth 0 - 1 Foot
cis-1,2-Dichloroethene in Soil, South Yard Area (West): Depth 0 - 1 Foot
cis-1,2-Dichloroethene in Soil, South Yard Area (East): Depth 1 - 6 Feet
cis-1,2-Dichloroethene in Soil, South Yard Area (West): Depth 1 - 6 Feet
cis-1,2-Dichloroethene in Soil, South Yard Area (East): Depth 6 - 12 Feet
cis-1,2-Dichloroethene in Soil, South Yard Area (West): Depth 6 - 12 Feet
Ethylbenzene Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot
Ethylbenzene Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot
Ethylbenzene Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet
Ethylbenzene Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet
Ethylbenzene Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet
Ethylbenzene Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet
Methylene Chloride Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot
Methylene Chloride Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot
Methylene Chloride Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet
Methylene Chloride Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet
Methylene Chloride Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet
Methylene Chloride Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet
Tetrachloroethene in Soil, South Yard Area (East): Depth 0 - 1 Foot
Tetrachloroethene in Soil, South Yard Area (West): Depth 0 - 1 Foot
Tetrachloroethene in Soil, South Yard Area (East): Depth 1 - 6 Feet
Tetrachloroethene in Soil, South Yard Area (West): Depth 1 - 6 Feet
Tetrachloroethene in Soil, South Yard Area (East): Depth 6 - 12 Feet
Tetrachloroethene in Soil, South Yard Area (West): Depth 6 - 12 Feet
Tetrachloroethene in Soil, South Yard Area Cross-Section A-A’
Toluene Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot

Toluene Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot
Toluene Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet
Toluene Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet
Toluene Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet
Toluene Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet
1,1,1-Trichloroethene Concentrations in Soil, South Yard Area (East): Depth 0 – 1 Foot
1,1,1-Trichloroethene Concentrations in Soil, South Yard Area (West): Depth 0 – 1 Foot
1,1,1-Trichloroethene Concentrations in Soil, South Yard Area (East): Depth 1 – 6 Feet
1,1,1-Trichloroethene Concentrations in Soil, South Yard Area (West): Depth 1 – 6 Feet
1,1,1-Trichloroethene Concentrations in Soil, South Yard Area (East): Depth 6 – 12 Feet
1,1,1-Trichloroethene Concentrations in Soil, South Yard Area (West): Depth 6 – 12 Feet
Trichloroethene in Soil, South Yard Area (East): Depth 0 - 1 Foot
Trichloroethene in Soil, South Yard Area (West): Depth 0 - 1 Foot
Trichloroethene in Soil, South Yard Area (East): Depth 1 - 6 Feet
Trichloroethene in Soil, South Yard Area (West): Depth 1 - 6 Feet
Trichloroethene in Soil, South Yard Area (East): Depth 6 - 12 Feet
Trichloroethene in Soil, South Yard Area (West): Depth 6 - 12 Feet
Trichlorethene in Soil, South Yard Area Cross-Section A-A’
Vinyl Chloride in Soil, South Yard Area (East): Depth 0 - 1 Foot
Vinyl Chloride in Soil, South Yard Area (West): Depth 0 - 1 Foot
Vinyl Chloride in Soil, South Yard Area (East): Depth 1 - 6 Feet
Vinyl Chloride in Soil, South Yard Area (West): Depth 1 - 6 Feet
Vinyl Chloride in Soil, South Yard Area (East): Depth 6 - 12 Feet
Vinyl Chloride in Soil, South Yard Area (West): Depth 6 - 12 Feet
Vinyl Chloride in Soil, South Yard Area Cross-section A-A’
TPH - Diesel Range in Soil, South Yard Area (East): Depth 0 - 1 Foot
TPH - Diesel Range in Soil, South Yard Area (West): Depth 0 - 1 Foot
TPH - Diesel Range in Soil, South Yard Area (East): Depth 1 - 6 Feet
TPH - Diesel Range in Soil, South Yard Area (West): Depth 1 - 6 Feet
TPH - Diesel Range in Soil, South Yard Area (East): Depth 6 - 12 Feet
TPH - Diesel Range in Soil, South Yard Area (West): Depth 6 - 12 Feet
TPH - Gasoline Range in Soil, South Yard Area (East): Depth 0 – 1 Foot

TPH - Gasoline Range in Soil, South Yard Area (West): Depth 0 - 1 Foot
TPH - Gasoline Range in Soil, South Yard Area (East): Depth 1 - 6 Feet
TPH - Gasoline Range in Soil, South Yard Area (West): Depth 1 - 6 Feet
TPH - Gasoline Range in Soil, South Yard Area (East): Depth 6 - 12 Feet
TPH - Gasoline Range in Soil, South Yard Area (West): Depth 6 - 12 Feet
Total Petroleum Hydrocarbons in Soil, South Yard Area (East): Depth 0 - 1 Foot
Total Petroleum Hydrocarbons in Soil, South Yard Area (West): Depth 0 - 1 Foot
Total Petroleum Hydrocarbons in Soil, South Yard Area (East): Depth 1 - 6 Feet
Total Petroleum Hydrocarbons in Soil, South Yard Area (West): Depth 1 - 6 Feet
Total Petroleum Hydrocarbons in Soil, South Yard Area (East): Depth 6 - 12 Feet
Total Petroleum Hydrocarbons in Soil, South Yard Area (West): Depth 6 - 12 Feet

List of Data Tables

Arsenic Concentrations in Soil
Cadmium Concentrations in Soil
Hexavalent Chromium Concentrations in Soil
Copper Concentrations in Soil
Mercury Concentrations in Soil
Nickel Concentrations in Soil
Selenium Concentrations in Soil
Silver Concentrations in Soil
Thallium Concentrations in Soil
Zinc Concentrations in Soil
Benzo(a)anthracene Concentrations in Soil
Benzo(b)fluoranthene Concentrations in Soil
Benzo(k)fluoranthene Concentrations in Soil
Benzo(a)pyrene Concentrations in Soil
Chrysene Concentrations in Soil
Dibenz(a,h)anthracene Concentrations in Soil
bis(2-Ethylhexyl)phthalate Concentrations in Soil
Indeno(1,2,3-cd)pyrene Concentrations in Soil

Aroclor 1016-1242 Concentrations in Soil

Aroclor 1254 Concentrations in Soil

Aroclor 1260 Concentrations in Soil

Benzene Concentrations in Soil

1,1-Dichloroethene Concentrations in Soil

cis-1,2-Dichloroethene Concentrations in Soil

Ethylbenzene Concentrations in Soil

Methylene Chloride Concentrations in Soil

Tetrachloroethene Concentrations in Soil

Toluene Concentrations in Soil

1,1,1-Trichloroethane Concentrations in Soil

Trichloroethene Concentrations in Soil

Vinyl Chloride Concentrations in Soil

TPH-Diesel Range Concentrations in Soil

TPH-Gasoline Range Concentrations in Soil

Total Petroleum Hydrocarbons in Soil

Table F-1 Screening Levels for Constituents of Concern in Site-wide Soils

CAS Number	Constituent of Concern	Maximum Detected	Soil Units	Laboratory RL	Puget Sound Basin Natural Background Concentration[a]	Direct Contact Risk Calculation[b]	Direct Contact Screening Level	Air Risk Calculation[c]	Air Screening Level	Surface Water Risk Calculation[d]	Surface Water Screening Level
Metals and Cyanide											
7440-36-0	Antimony	5.76E+02	mg/kg	5.00E+00	- -	***5.33E+02***	***5.33E+02***	- -	- -	***3.40E+02***	***3.40E+02***
7440-38-2	Arsenic	7.60E+01	mg/kg	5.00E+00	7.30E+00	***3.33E+01***	***3.33E+01***	3.22E+04	3.22E+04	***1.13E-02***	***5.00E+00***
7440-43-9	Cadmium	7.10E+03	mg/kg	2.00E-01	7.70E-01	***6.67E+02***	***6.67E+02***	7.70E+04	7.70E+04	***1.21E+00***	***1.21E+00***
18540-29-9	Chromium (VI)	2.40E+03	mg/kg	2.00E-01	- -	4.00E+03	4.00E+03	1.06E+04	1.06E+04	***1.92E+01***	***1.92E+01***
7440-50-8	Copper	2.81E+04	mg/kg	2.00E-01	3.64E+01	4.93E+04	4.93E+04	- -	- -	***1.38E+00***	***1.38E+00***
7439-92-1	Lead	1.73E+04	mg/kg	2.00E+00	1.68E+01	***1.00E+03***	***1.00E+03***	- -	- -	***1.62E+03***	***1.62E+03***
7439-96-5	Manganese	3.17E+03	mg/kg	1.00E-01	1.146E+03	1.87E+05	1.87E+05	- -	- -	***1.30E+02***	***1.30E+02***
7439-97-6	Mercury	3.00E+01	mg/kg	5.00E-02	7.00E-02	4.19E+01	4.19E+01	***6.39E-03***	***5.00E-02***	***2.61E-02***	***5.00E-02***
7440-02-0	Nickel (soluble salts)	1.77E+03	mg/kg	1.00E+00	4.78E+01	2.67E+04	2.67E+04	- -	- -	***1.07E+01***	***1.07E+01***
7782-49-2	Selenium	9.00E+00	mg/kg	5.00E+00	- -	6.67E+03	6.67E+03	- -	- -	***7.38E+00***	***7.38E+00***
7440-22-4	Silver	2.74E+02	mg/kg	3.00E-01	- -	6.67E+03	6.67E+03	- -	- -	***3.23E-01***	***3.23E-01***
7440-28-0	Thallium (soluble salts)	5.60E+01	mg/kg	2.00E-01	- -	8.64E+01	8.64E+01	- -	- -	***6.69E-01***	***6.69E-01***
7440-66-6	Zinc	3.10E+04	mg/kg	6.00E-01	8.51E+01	4.00E+05	4.00E+05	- -	- -	***1.01E+02***	***1.01E+02***
57-12-5	Cyanide	4.60E+03	mg/kg	1.00E-01	- -	2.67E+04	2.67E+04	- -	- -	***2.02E-01***	***2.02E-01***
Semivolatile Organic Compounds (SVOCs) and Polychlorinated Biphenyls (PCBs)											
56-55-3	Benzo(a)anthracene	2.00E+05	µg/kg	6.70E+00	- -	***3.42E+03***	***3.42E+03***	- -	- -	***4.19E+01***	***4.19E+01***
205-99-2	Benzo(b)fluoranthene	1.00E+05	µg/kg	6.70E+00	- -	***3.42E+03***	***3.42E+03***	- -	- -	***1.44E+02***	***1.44E+02***
207-08-9	Benzo(k)fluoranthene	1.60E+05	µg/kg	6.70E+00	- -	***3.42E+03***	***3.42E+03***	- -	- -	***1.44E+02***	***1.44E+02***
50-32-8	Benzo(a)pyrene	2.10E+05	µg/kg	6.70E+00	- -	***3.42E+03***	***3.42E+03***	7.95E+07	7.95E+07	***1.13E+02***	***1.13E+02***
218-01-9	Chrysene	2.40E+05	µg/kg	6.70E+00	- -	***3.42E+03***	***3.42E+03***	- -	- -	***4.66E+01***	***4.66E+01***
53-70-3	Dibenz(a,h)anthracene	3.30E+04	µg/kg	6.70E+00	- -	***3.42E+03***	***3.42E+03***	- -	- -	***2.10E+02***	***2.10E+02***
105-67-9	2,4-Dimethylphenol	1.30E+05	µg/kg	2.00E+02	- -	1.33E+07	1.33E+07	- -	- -	***1.64E+03***	***1.64E+03***
131-11-3	Dimethylphthalate	1.50E+05	µg/kg	6.70E+01	- -	6.67E+08	6.67E+08	- -	- -	***1.24E+05***	***1.24E+05***
117-81-7	bis(2-Ethylhexyl)phthalate	5.20E+05	µg/kg	6.70E+01	- -	1.79E+06	1.79E+06	- -	- -	***1.57E+03***	***1.57E+03***
206-44-0	Fluoranthene	4.10E+05	µg/kg	6.70E+01	- -	2.67E+07	2.67E+07	- -	- -	***3.23E+04***	***3.23E+04***
193-39-5	Indeno(1,2,3-cd)pyrene	8.30E+04	µg/kg	6.70E+00	- -	***3.42E+03***	***3.42E+03***	- -	- -	***4.06E+02***	***4.06E+02***
-	Aroclor 1016/1242	9.00E+02	µg/kg	3.30E+01	- -	4.67E+04	4.67E+04	- -	- -	***1.38E-01***	***3.30E+01***
11097-69-1	Aroclor 1254	8.10E+04	µg/kg	3.30E+01	- -	***1.33E+04***	***1.33E+04***	- -	- -	***1.08E+00***	***3.30E+01***
11096-82-5	Aroclor 1260	6.60E+05	µg/kg	3.30E+01	- -	- -	- -	- -	- -	***1.05E+00***	***3.30E+01***
-	Total PCBs	6.60E+05	µg/kg	3.30E+01	- -	- -	- -	- -	- -	***3.96E-01***	***3.30E+01***
Volatile Organic Compounds (VOCs)											
71-43-2	Benzene	4.90E+04	µg/kg	1.00E+00	- -	1.36E+06	1.36E+06	***1.04E+02***	***1.04E+02***	***2.53E+01***	***2.53E+01***
104-51-8	n-Butylbenzene	3.70E+04	µg/kg	1.00E+00	- -	- -	- -	***4.64E+03***	***4.64E+03***	- -	- -
135-98-8	sec-Butylbenzene	1.00E+04	µg/kg	1.00E+00	- -	- -	- -	***7.86E+03***	***7.86E+03***	- -	- -
67-66-3	Chloroform	4.80E+02	µg/kg	1.00E+00	- -	7.03E+06	7.03E+06	***3.96E+01***	***3.96E+01***	***2.98E+02***	***2.98E+02***
75-35-4	1,1-Dichloroethene	1.70E+03	µg/kg	1.00E+00	- -	1.24E+05	1.24E+05	***1.23E+03***	***1.23E+03***	***2.73E+00***	***2.73E+00***
156-59-2	cis-1,2-Dichloroethene	7.30E+05	µg/kg	1.00E+00	- -	7.99E+06	7.99E+06	***7.94E+02***	***7.94E+02***	***5.66E+03***	***5.66E+03***
156-60-5	trans-1,2-Dichloroethene	7.10E+03	µg/kg	1.00E+00	- -	1.31E+07	1.31E+07	***8.99E+02***	***8.99E+02***	5.43E+04	5.43E+04
100-41-4	Ethylbenzene	2.60E+05	µg/kg	1.00E+00	- -	1.45E+08	1.45E+08	***2.52E+03***	***2.52E+03***	***1.81E+04***	***1.81E+04***
98-82-8	Isopropylbenzene	1.80E+04	µg/kg	1.00E+00	- -	1.45E+08	1.45E+08	***1.27E+03***	***1.27E+03***	- -	- -
75-09-2	Methylene Chloride	2.40E+04	µg/kg	2.00E+00	- -	9.94E+06	9.94E+06	***1.89E+03***	***1.89E+03***	***8.28E+02***	***8.28E+02***
91-20-3	Naphthalene	5.20E+05	µg/kg	5.00E+00	- -	1.44E+07	1.44E+07	***2.48E+04***	***2.48E+04***	***4.99E+04***	***4.99E+04***
103-65-1	n-Propylbenzene	4.20E+04	µg/kg	1.00E+00	- -	- -	- -	***1.36E+04***	***1.36E+04***	- -	- -
79-34-5	1,1,2,2-Tetrachloroethane	1.70E+02	µg/kg	1.00E+00	- -	2.73E+05	2.73E+05	3.48E+02	3.48E+02	***7.19E+00***	***7.19E+00***
127-18-4	Tetrachloroethene	2.00E+04	µg/kg	1.00E+00	- -	1.07E+06	1.07E+06	***1.99E+02***	***1.99E+02***	***8.72E+00***	***8.72E+00***

Table F-1 Screening Levels for Constituents of Concern in Site-wide Soils

CAS Number	Constituent of Concern	Maximum Detected	Soil Units	Laboratory RL	Puget Sound Basin Natural Background Concentration[a]	Direct Contact Risk Calculation[b]	Direct Contact Screening Level	Air Risk Calculation[c]	Air Screening Level	Surface Water Risk Calculation[d]	Surface Water Screening Level
VOCs (cont'd)											
108-88-3	Toluene	6.50E+05	µg/kg	1.00E+00	- -	1.34E+08	1.34E+08	***1.90E+04***	***1.90E+04***	***1.09E+05***	***1.09E+05***
71-55-6	1,1,1-Trichloroethane	1.10E+05	µg/kg	1.00E+00	- -	4.12E+08	4.12E+08	***2.78E+04***	***2.78E+04***	1.20E+06	1.20E+06
79-00-5	1,1,2-Trichloroethane	3.30E+03	µg/kg	1.00E+00	- -	9.57E+05	9.57E+05	***2.90E+02***	***2.90E+02***	***2.78E+01***	***2.78E+01***
79-01-6	Trichloroethene	1.10E+07	µg/kg	1.00E+00	- -	***1.36E+05***	***1.36E+05***	***8.86E+00***	***8.86E+00***	***2.00E+00***	***2.00E+00***
95-63-6	1,2,4-Trimethylbenzene	3.20E+05	µg/kg	1.00E+00	- -	7.27E+07	7.27E+07	***2.36E+03***	***2.36E+03***	- -	- -
108-67-8	1,3,5-Trimethylbenzene	1.20E+05	µg/kg	1.00E+00	- -	7.27E+07	7.27E+07	***2.47E+03***	***2.47E+03***	- -	- -
75-01-4	Vinyl Chloride	1.80E+04	µg/kg	1.00E+00	- -	4.97E+04	4.97E+04	***1.64E+01***	***1.64E+01***	***4.59E+00***	***4.59E+00***
Total Petroleum Hydrocarbons (TPH)											
-	TPH - Diesel Range	1.10E+05	mg/kg	5.00E+00	- -	***2.00E+03***					
-	TPH - Gasoline Range	2.50E+04	mg/kg	5.00E+00	- -	***3.00E+01***					
-	TPH - Oil Range	2.00E+04	mg/kg	1.00E+01	- -	***2.00E+03***					

Notes:

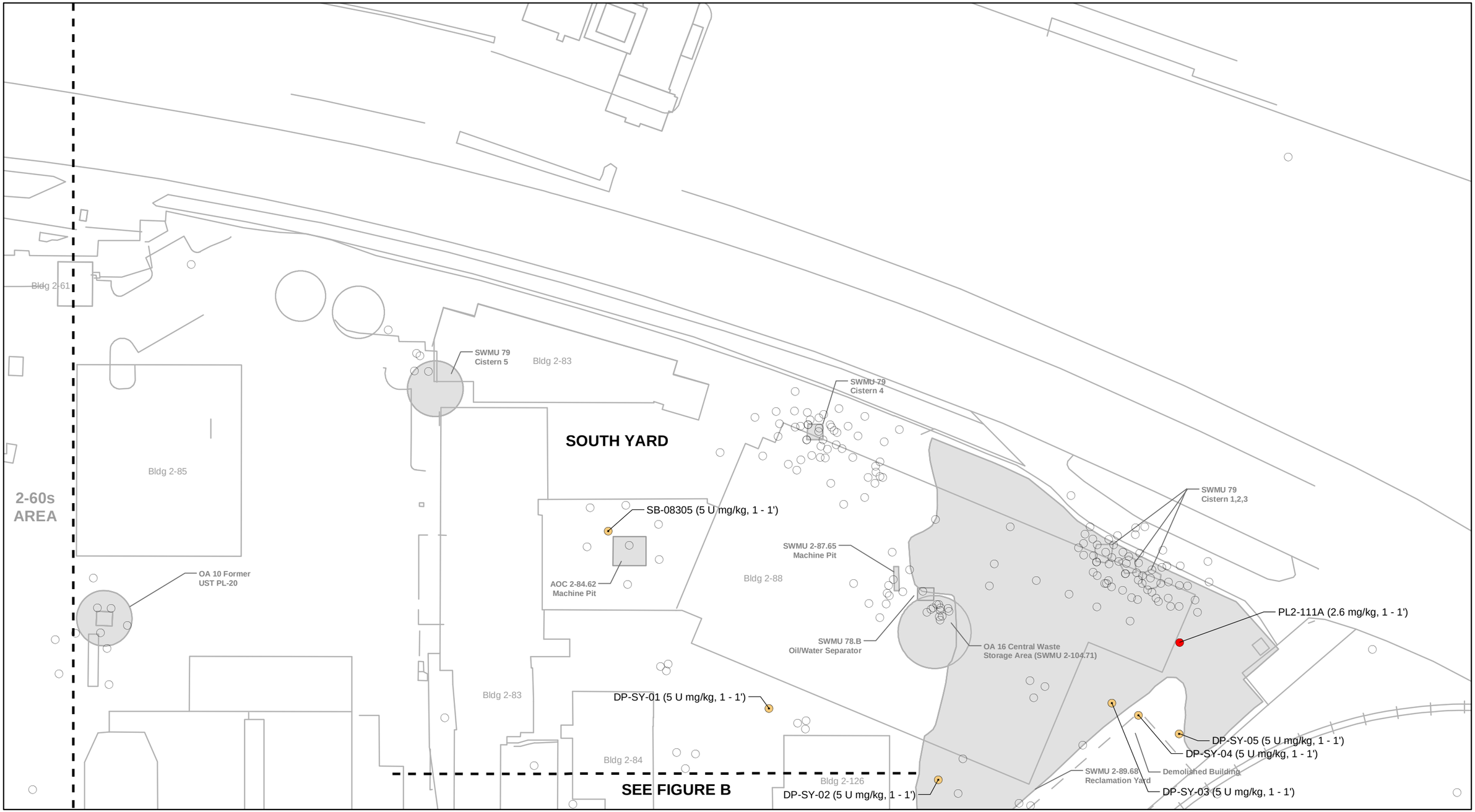
	Screening levels adjust risk calculations up to the reporting limit (RL) where applicable.
Bolded	**Bolded** risk based and screening level concentrations are below maximum detect.
a	Source: Ecology, 1994.
b	Lowest soil concentration protective of dermal contact, ingestion and trenching.
c	Lowest soil concentration protective of indoor and outdoor air (inclusive of fugitive dust).
d	Lowest soil concentration protective of human ingestion of aquatic organisms and protection of aquatic organisms.
*	Constituent not listed.
- -	Not calculated.
RL	Reporting Limit as detailed in Analytical Resources Inc. Laboratory Quality Assurance Plan, Version 11-022, dated 5/17/04 (generally equivalent to the practical quantitation limit in a clean matrix).
TPH	Total Petroleum Hydrocarbon.

Table F-2 Constituents of Concern Detected in South Yard Area Soil

CAS Number	Constituent of Concern	Soil Units	Maximum Detected	Samples Analyzed	Detects	Samples above Direct Contact Screening Level	Samples above Air Screening Level	Samples above Surface Water Screening Level	Samples above Puget Sound Basin Natural Background Concentration
Metals									
7440-38-2	Arsenic	mg/kg	1.20E+01	235	67	0	0	- -	7
7440-43-9	Cadmium	mg/kg	3.70E+03	257	54	1	0	- -	14
18540-29-9	Chromium (VI)	mg/kg	1.30E+03	37	5	0	0	1	- -
7440-50-8	Copper	mg/kg	8.30E+02	257	257	0	- -	- -	10
7439-97-6	Mercury	mg/kg	1.72E+00	240	33	0	27	- -	16
7440-02-0	Nickel (soluble salts)	mg/kg	6.10E+02	228	228	0	- -	- -	1
7782-49-2	Selenium	mg/kg	9.00E+00	234	18	0	- -	5	- -
7440-22-4	Silver	mg/kg	2.20E+01	228	15	0	- -	11	- -
7440-28-0	Thallium (soluble salts)	mg/kg	5.60E+01	234	24	0	- -	16	- -
7440-66-6	Zinc	mg/kg	2.60E+04	256	253	0	- -	14	- -
Semivolatile Organic Compounds (SVOCs) and Polychlorinated Biphenyls (PCBs)									
56-55-3	Benzo(a)anthracene	µg/kg	2.10E+02	120	10	0	- -	4	- -
205-99-2	Benzo(b)fluoranthene	µg/kg	8.40E+02	120	10	0	- -	2	- -
207-08-9	Benzo(k)fluoranthene	µg/kg	8.40E+02	120	11	0	- -	2	- -
50-32-8	Benzo(a)pyrene	µg/kg	1.40E+03	120	11	0	0	2	- -
218-01-9	Chrysene	µg/kg	2.40E+02	120	21	0	- -	8	- -
53-70-3	Dibenz(a,h)anthracene	µg/kg	1.90E+03	120	4	0	- -	1	- -
117-81-7	bis(2-Ethylhexyl)phthalate	µg/kg	3.30E+05	136	34	0	- -	7	- -
193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	2.00E+03	120	7	0	- -	1	- -
-	Aroclor 1016/1242	µg/kg	9.00E+02	100	2	0	- -	2	- -
11097-69-1	Aroclor 1254	µg/kg	8.10E+04	251	22	1	- -	20	- -
11096-82-5	Aroclor 1260	µg/kg	2.60E+02	251	15	- -	- -	14	- -
-	Total PCBs	µg/kg	2.12E+05	256	30	- -	- -	27	- -
Volatile Organic Compounds (VOCs)									
71-43-2	Benzene	µg/kg	4.90E+04	288	23	0	3	5	- -
75-35-4	1,1-Dichloroethene	µg/kg	2.30E+02	285	9	0	0	8	- -
156-59-2	cis-1,2-Dichloroethene	µg/kg	1.50E+03	245	49	0	5	0	- -
100-41-4	Ethylbenzene	µg/kg	2.60E+05	288	27	0	2	1	- -
75-09-2	Methylene Chloride	µg/kg	1.90E+03	284	88	0	1	2	- -
127-18-4	Tetrachloroethene	µg/kg	3.30E+03	285	76	0	7	28	- -
108-88-3	Toluene	µg/kg	6.50E+05	288	94	0	1	1	- -
71-55-6	1,1,1-Trichloroethane	µg/kg	1.10E+05	285	39	0	1	0	- -
79-01-6	Trichloroethene	µg/kg	7.60E+03	295	129	0	63	98	- -
75-01-4	Vinyl Chloride	µg/kg	1.10E+03	295	24	0	10	18	- -
Total Petroleum Hydrocarbons									
-	TPH - Gasoline Range	mg/kg	1.40E+04	98	4	3			- -
-	TPH - Diesel Range	mg/kg	1.40E+04	99	10	3			- -
-	TPH - (range not defined)	mg/kg	5.68E+04	156	79	26			- -

Notes:

TPH Total Petroleum Hydrocarbons



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.3 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

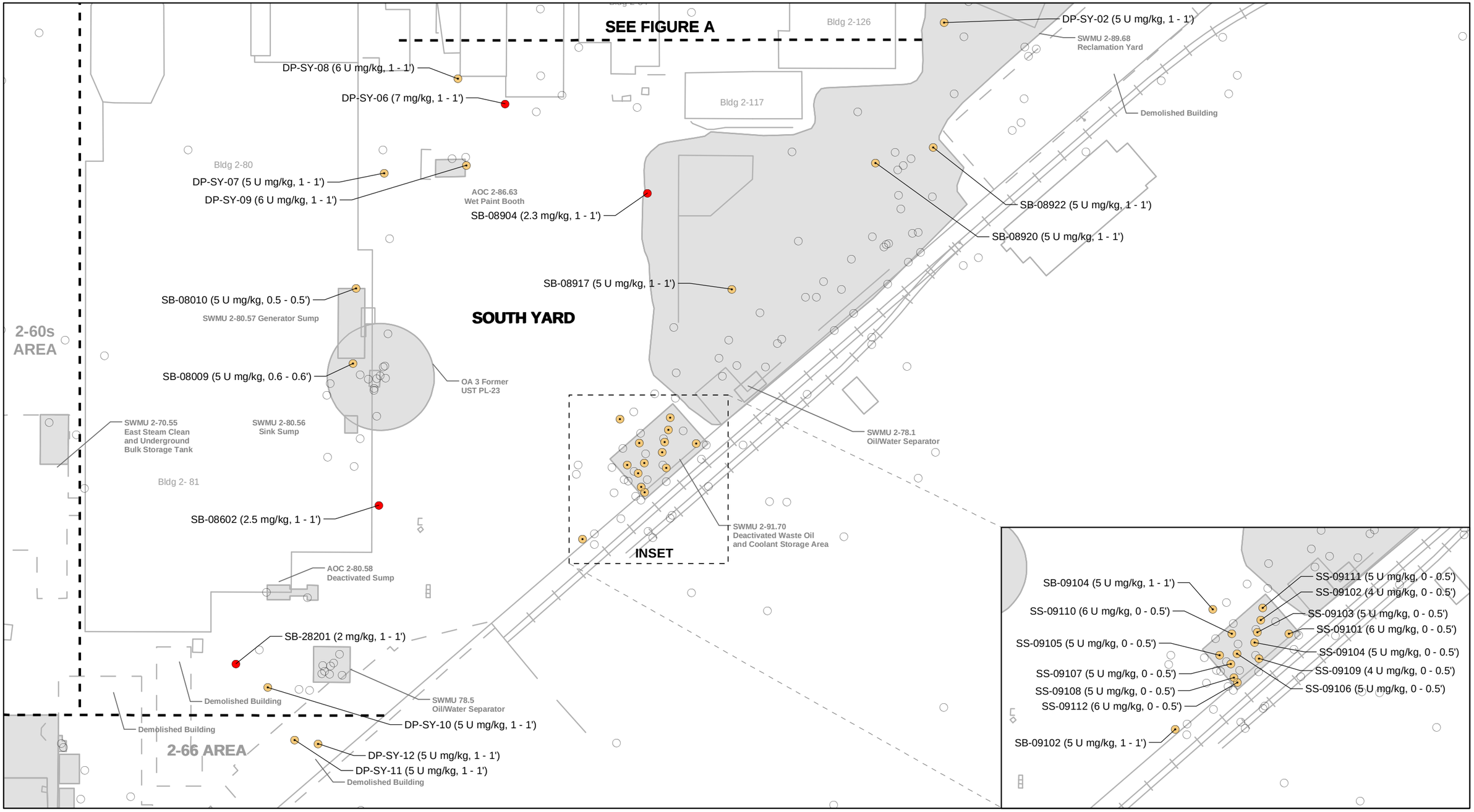
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ARSENIC IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_ARSENICSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.3 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

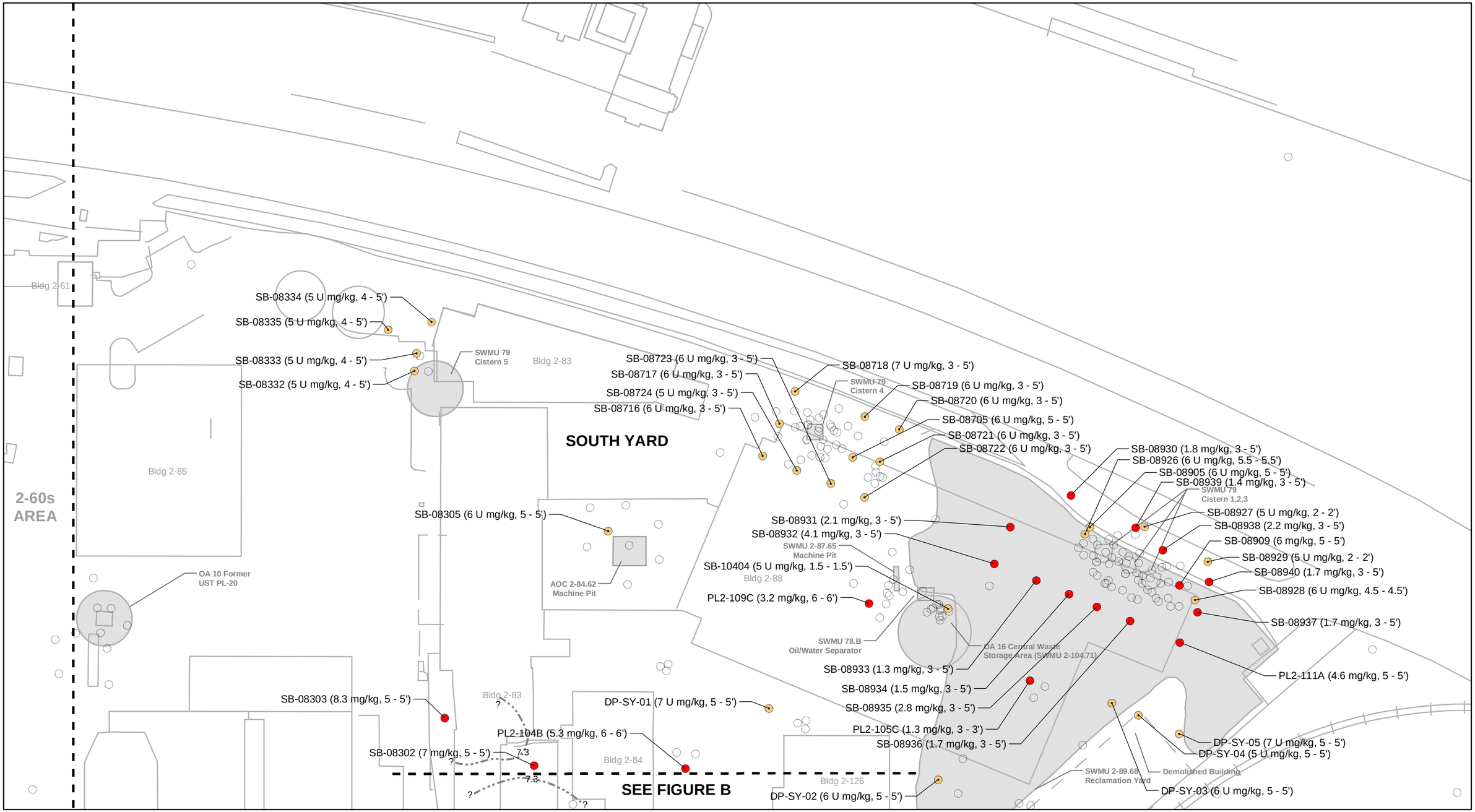
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ARSENIC IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_ARSENICSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.3 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

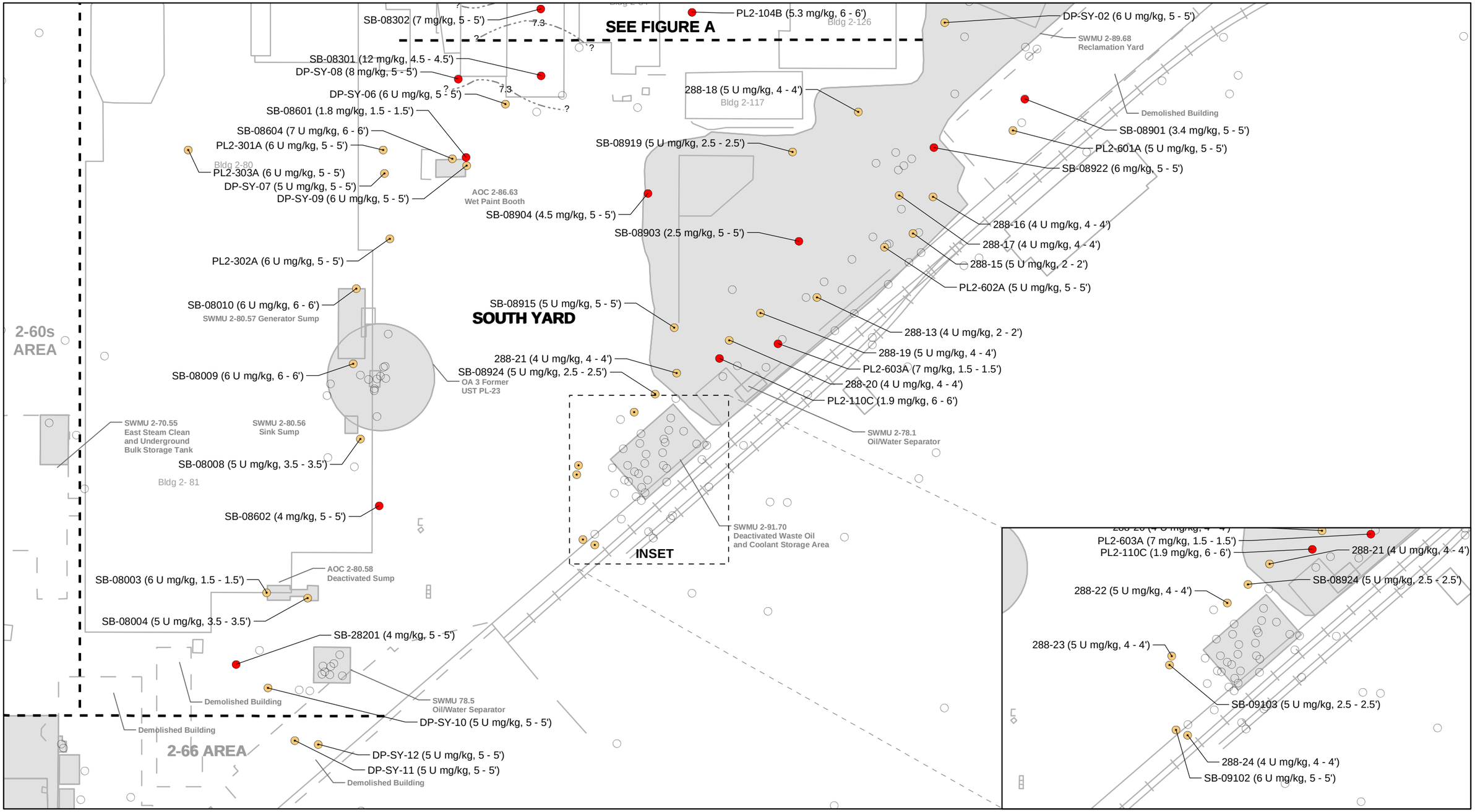
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ARSENIC IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_ARSENICSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.3 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

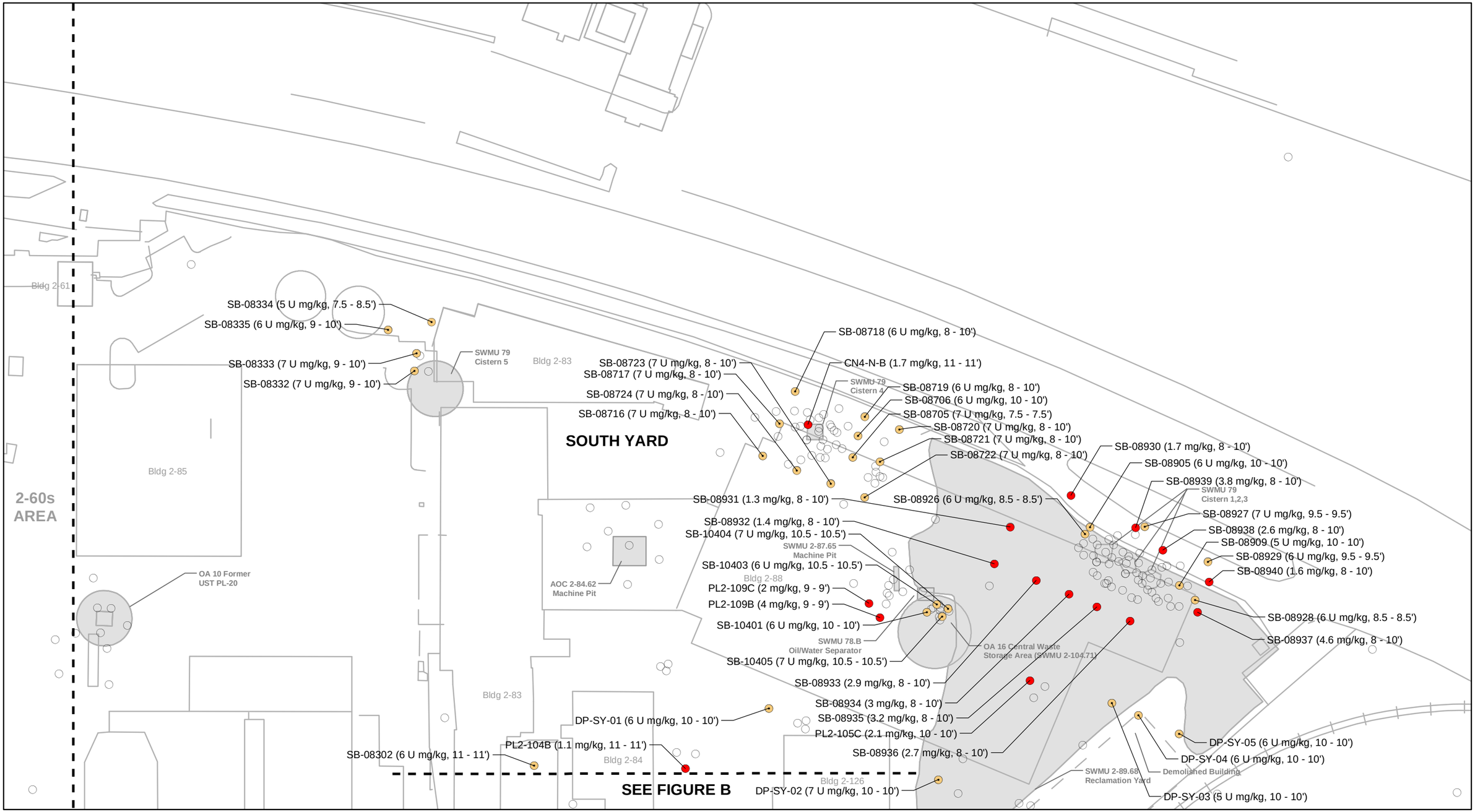
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ARSENIC IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_ARSENICSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.3 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

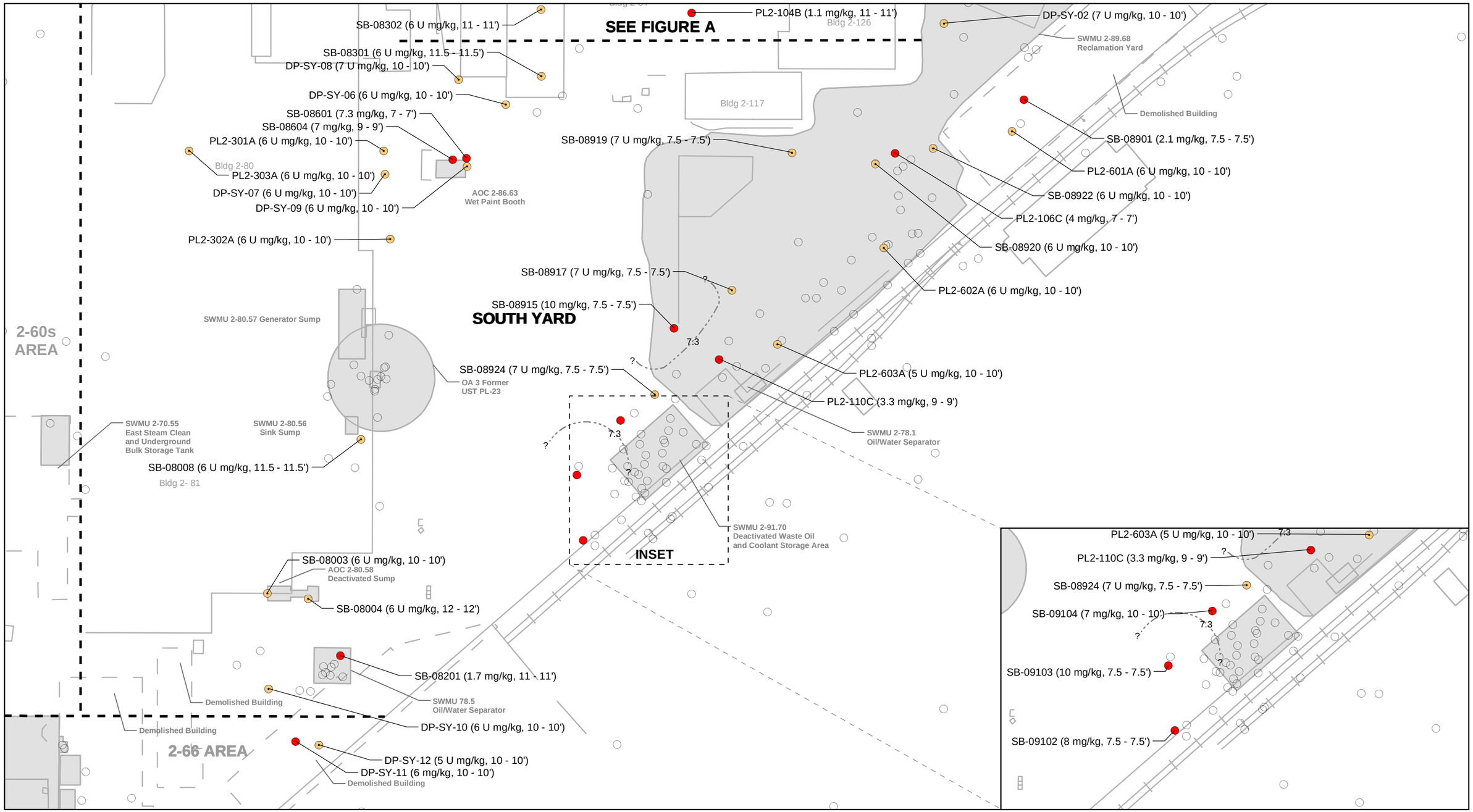
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ARSENIC IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_ARSENICSY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.3 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

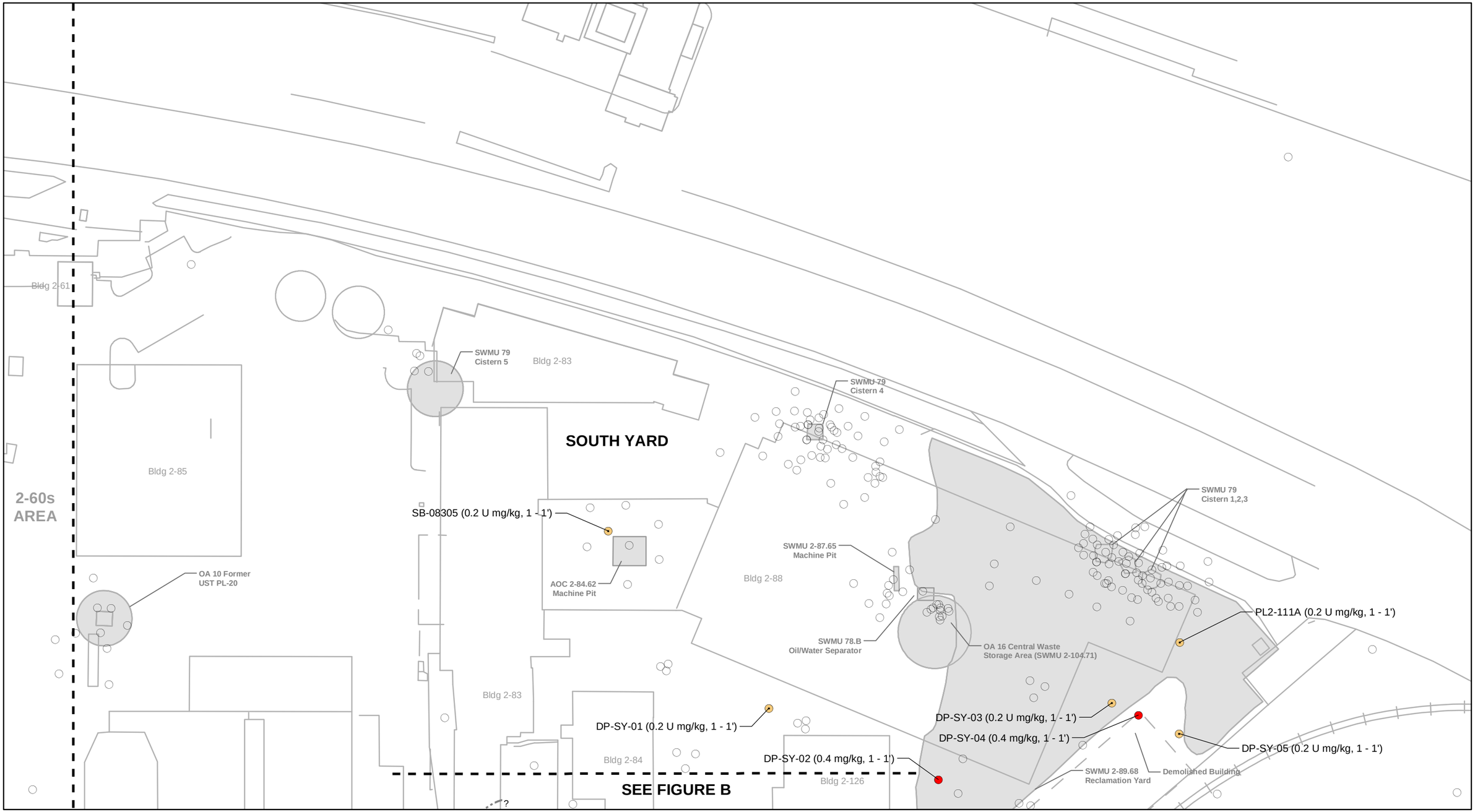
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ARSENIC IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 03/21/07	Figure: 3B

0131646003200_ARSENICSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1.21 mg/kg
Proposed Media Cleanup Level (PMCL) = 1.28 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CADMIUM IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_CADMIUMSY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

DP-SY-02 (0.4 mg/kg, 1 - 1')

SWMU 2-89.68
Reclamation Yard

Demolished Building

DP-SY-08 (0.8 mg/kg, 1 - 1')

1.21

DP-SY-06 (4.3 mg/kg, 1 - 1')

Bldg 2-117

DP-SY-09 (0.2 U mg/kg, 1 - 1')

Bldg 2-80

DP-SY-07 (0.2 U mg/kg, 1 - 1')

AOC 2-86.63
Wet Paint Booth

SB-08904 (0.2 U mg/kg, 1 - 1')

SB-08922 (0.2 U mg/kg, 1 - 1')

SB-08920 (0.4 mg/kg, 1 - 1')

SB-08010 (0.2 U mg/kg, 0.5 - 0.5')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08917 (0.2 U mg/kg, 1 - 1')

SB-08009 (0.6 mg/kg, 0.6 - 0.6')

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SB-08602 (0.2 U mg/kg, 1 - 1')

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-28201 (0.2 U mg/kg, 1 - 1')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

DP-SY-10 (0.2 U mg/kg, 1 - 1')

2-66 AREA

DP-SY-12 (0.2 U mg/kg, 1 - 1')

DP-SY-11 (0.2 U mg/kg, 1 - 1')

Demolished Building

SS-09103 (0.3 mg/kg, 0.5 - 0')

SB-09104 (0.2 U mg/kg, 1 - 1')

SS-09111 (0.3 mg/kg, 0.5 - 0')

SS-09102 (0.3 mg/kg, 0.5 - 0')

SS-09110 (0.2 U mg/kg, 0.5 - 0')

SS-09101 (4.5 mg/kg, 0.5 - 0')

SS-09106 (0.2 U mg/kg, 0.5 - 0')

SS-09105 (4.3 mg/kg, 0.5 - 0')

SS-09104 (2.3 mg/kg, 0.5 - 0')

SS-09107 (0.8 mg/kg, 0.5 - 0')

SS-09108 (0.7 mg/kg, 0.5 - 0')

SS-09109 (0.7 mg/kg, 0.5 - 0')

SB-09102 (0.2 U mg/kg, 1 - 1')

SS-09112 (0.2 U mg/kg, 0.5 - 0')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1.21 mg/kg
Proposed Media Cleanup Level (PMCL) = 1.28 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

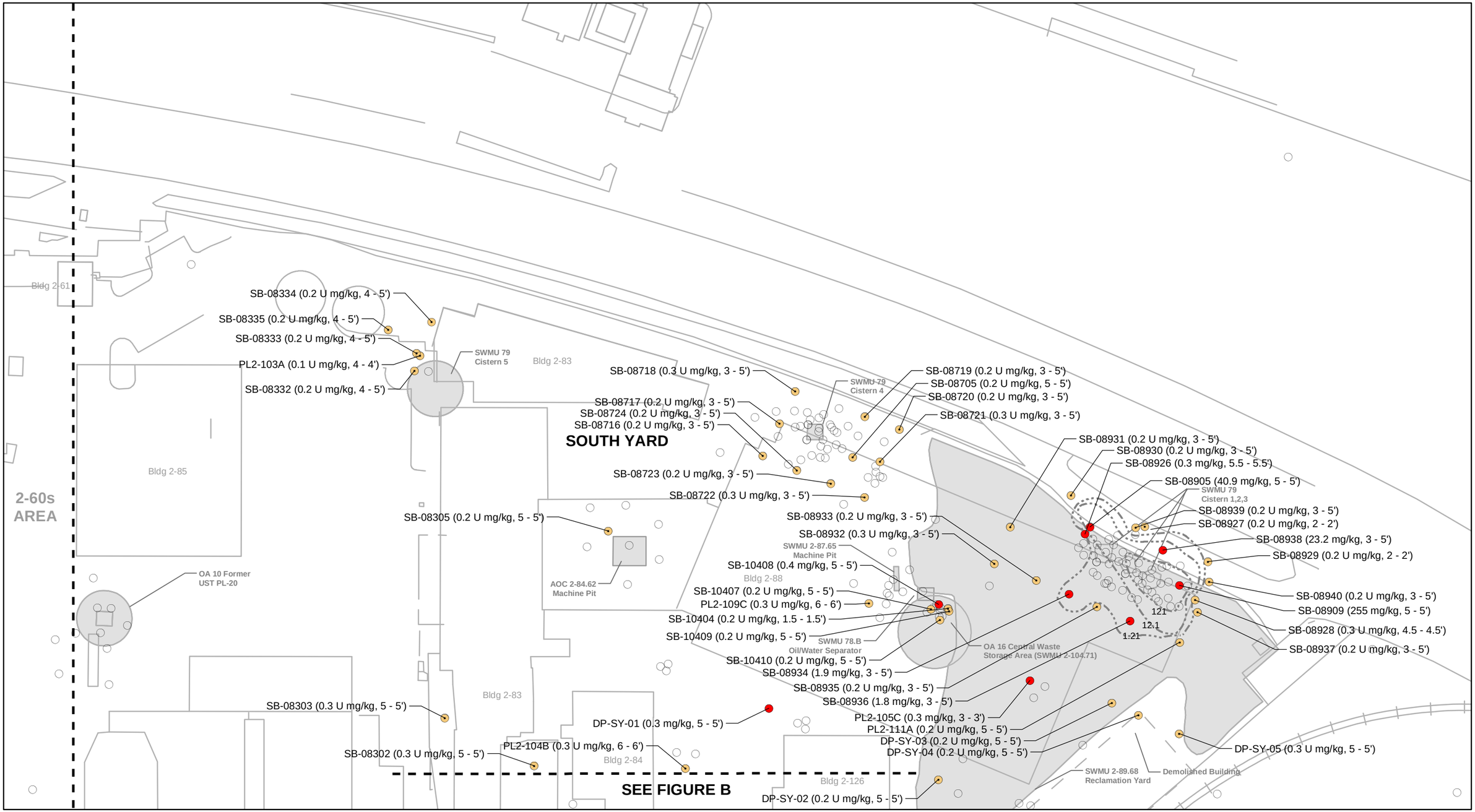
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CADMIUM IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_CADMIUMSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1.21 mg/kg
Proposed Media Cleanup Level (PMCL) = 1.28 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

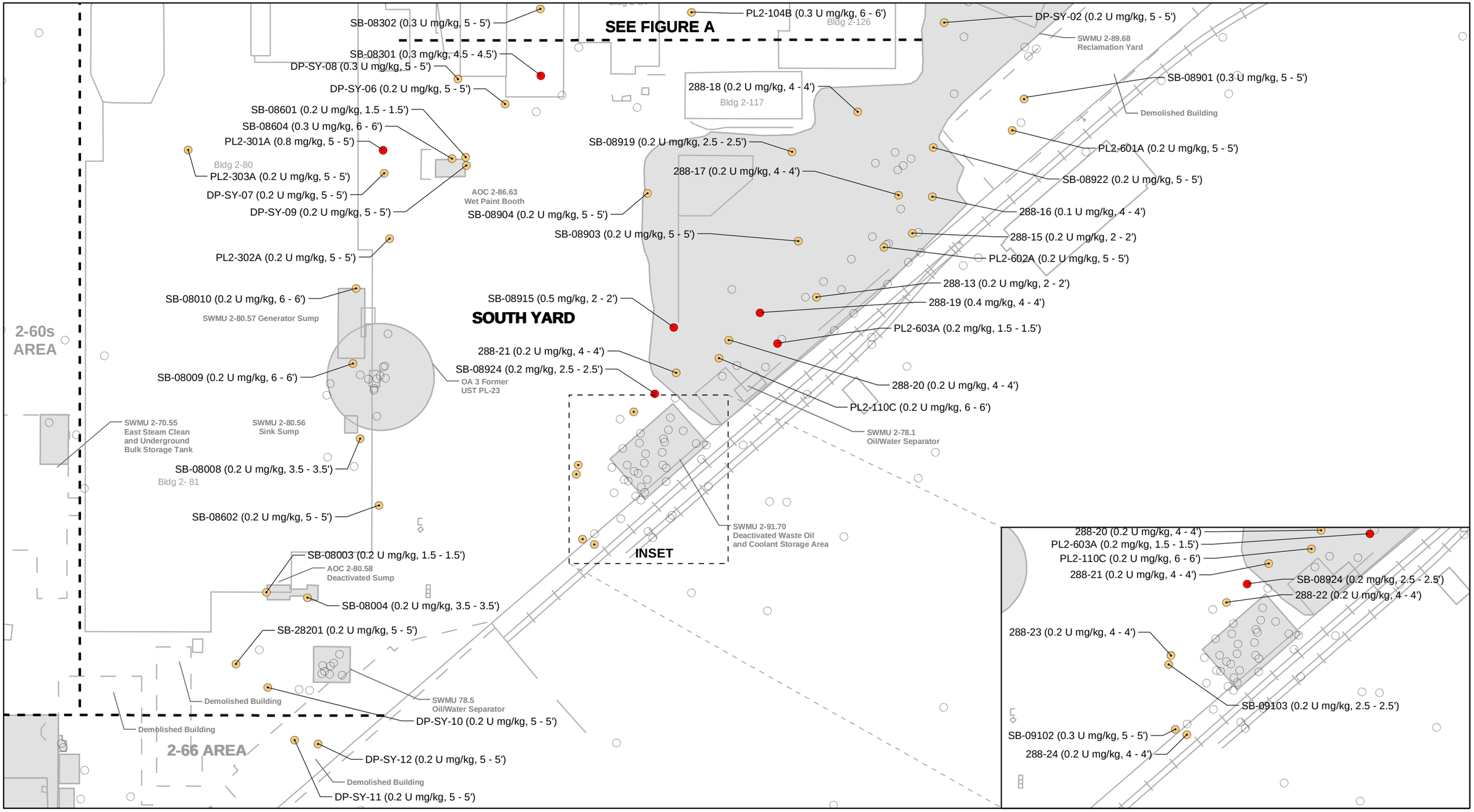
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CADMIUM IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_CADMIUMSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1.21 mg/kg
Proposed Media Cleanup Level (PMCL) = 1.28 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

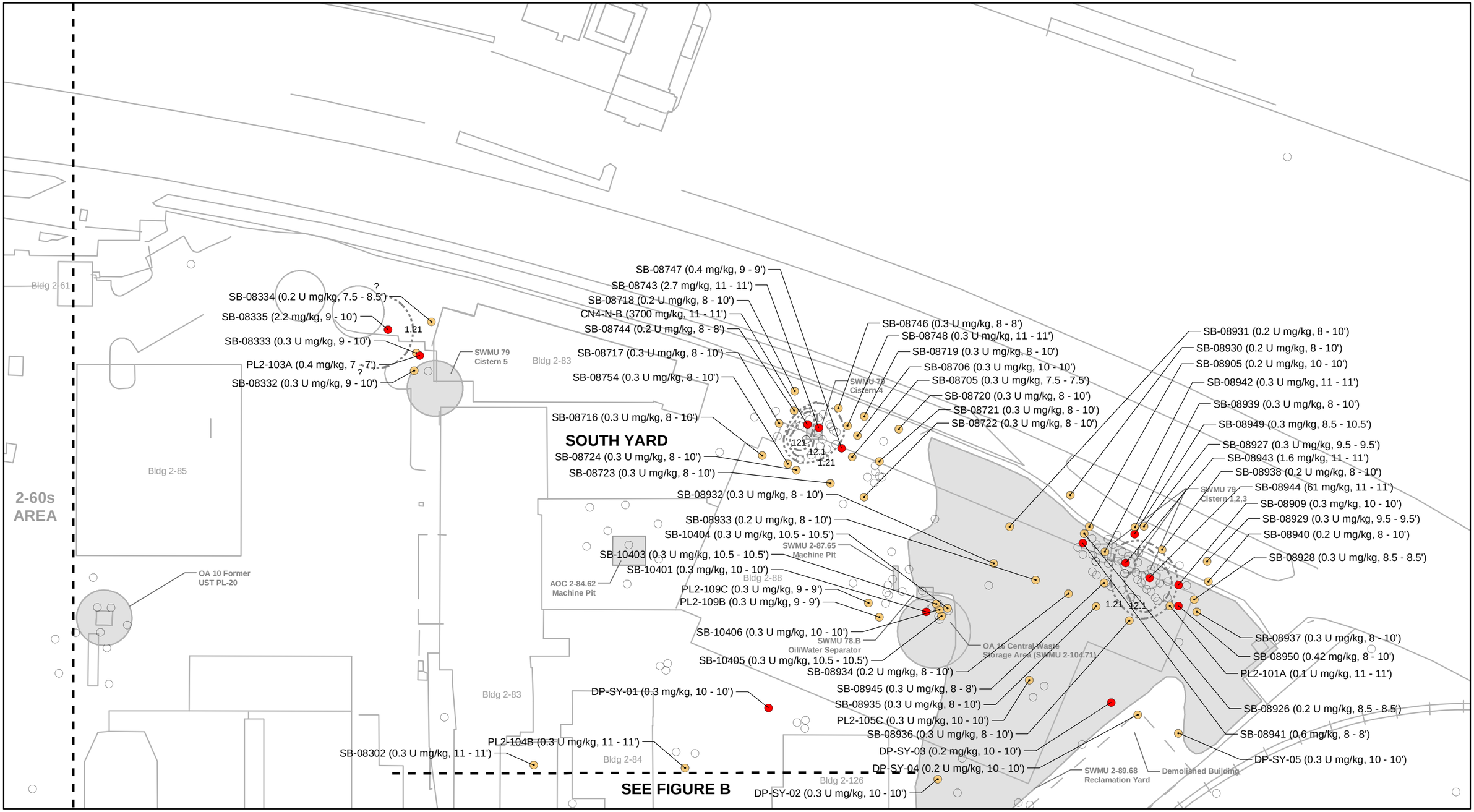
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CADMIUM IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_CADMIUMSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1.21 mg/kg
Proposed Media Cleanup Level (PMCL) = 1.28 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CADMIUM IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_CADMIUMSY3A.mxd

Golder Associates

SEE FIGURE A

SB-08302 (0.3 U mg/kg, 11 - 11')
PL2-104B (0.3 U mg/kg, 11 - 11')
DP-SY-02 (0.3 U mg/kg, 10 - 10')
SB-08301 (0.3 U mg/kg, 11.5 - 11.5')
DP-SY-08 (0.3 U mg/kg, 10 - 10')
DP-SY-06 (0.2 U mg/kg, 10 - 10')
SB-08601 (0.4 mg/kg, 7 - 7')
SB-08604 (0.3 U mg/kg, 9 - 9')
PL2-301A (0.3 mg/kg, 10 - 10')
SB-08919 (0.4 mg/kg, 10 - 10')
DP-SY-09 (0.2 U mg/kg, 10 - 10')
PL2-303A (0.3 U mg/kg, 10 - 10')
DP-SY-07 (0.2 U mg/kg, 10 - 10')
PL2-302A (0.5 mg/kg, 10 - 10')
SB-08901 (0.3 mg/kg, 7.5 - 7.5')
PL2-601A (0.2 U mg/kg, 10 - 10')
SB-08922 (0.2 U mg/kg, 10 - 10')
PL2-106C (0.3 U mg/kg, 7 - 7')
SB-08920 (0.4 mg/kg, 7.5 - 7.5')
PL2-602A (0.2 U mg/kg, 10 - 10')
SB-08917 (0.3 mg/kg, 7.5 - 7.5')
SB-08915 (0.3 mg/kg, 7.5 - 7.5')
SOUTH YARD
SB-08924 (0.3 U mg/kg, 7.5 - 7.5')
PL2-603A (0.2 U mg/kg, 10 - 10')
PL2-110C (0.3 U mg/kg, 9 - 9')
SB-08008 (0.2 U mg/kg, 11.5 - 11.5')
SB-08003 (0.3 U mg/kg, 10 - 10')
SB-08004 (0.2 U mg/kg, 12 - 12')
SB-08201 (0.3 mg/kg, 6.5 - 6.5')
DP-SY-10 (0.2 U mg/kg, 10 - 10')
DP-SY-12 (0.2 U mg/kg, 10 - 10')
DP-SY-11 (0.2 U mg/kg, 10 - 10')

Bldg 2-126
SWMU 2-89.68 Reclamation Yard
Bldg 2-117
Demolished Building
Bldg 2-80
AOC 2-86.63 Wet Paint Booth
SWMU 2-80.57 Generator Sump
2-60s AREA
OA 3 Former UST PL-23
SWMU 2-70.55 East Steam Clean and Underground Bulk Storage Tank
SWMU 2-80.56 Sink Sump
SWMU 2-78.1 Oil/Water Separator
Bldg 2- 81
SWMU 2-91.70 Deactivated Waste Oil and Coolant Storage Area
INSET
AOC 2-80.58 Deactivated Sump
SWMU 78.5 Oil/Water Separator
Demolished Building
2-66 AREA
Demolished Building
Demolished Building

PL2-603A (0.2 U mg/kg, 10 - 10')
PL2-110C (0.3 U mg/kg, 9 - 9')
SB-08924 (0.3 U mg/kg, 7.5 - 7.5')
SB-09104 (0.3 U mg/kg, 7.5 - 7.5')
SB-09103 (0.3 U mg/kg, 10 - 10')
SB-09102 (0.2 U mg/kg, 7.5 - 7.5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1.21 mg/kg
Proposed Media Cleanup Level (PMCL) = 1.28 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

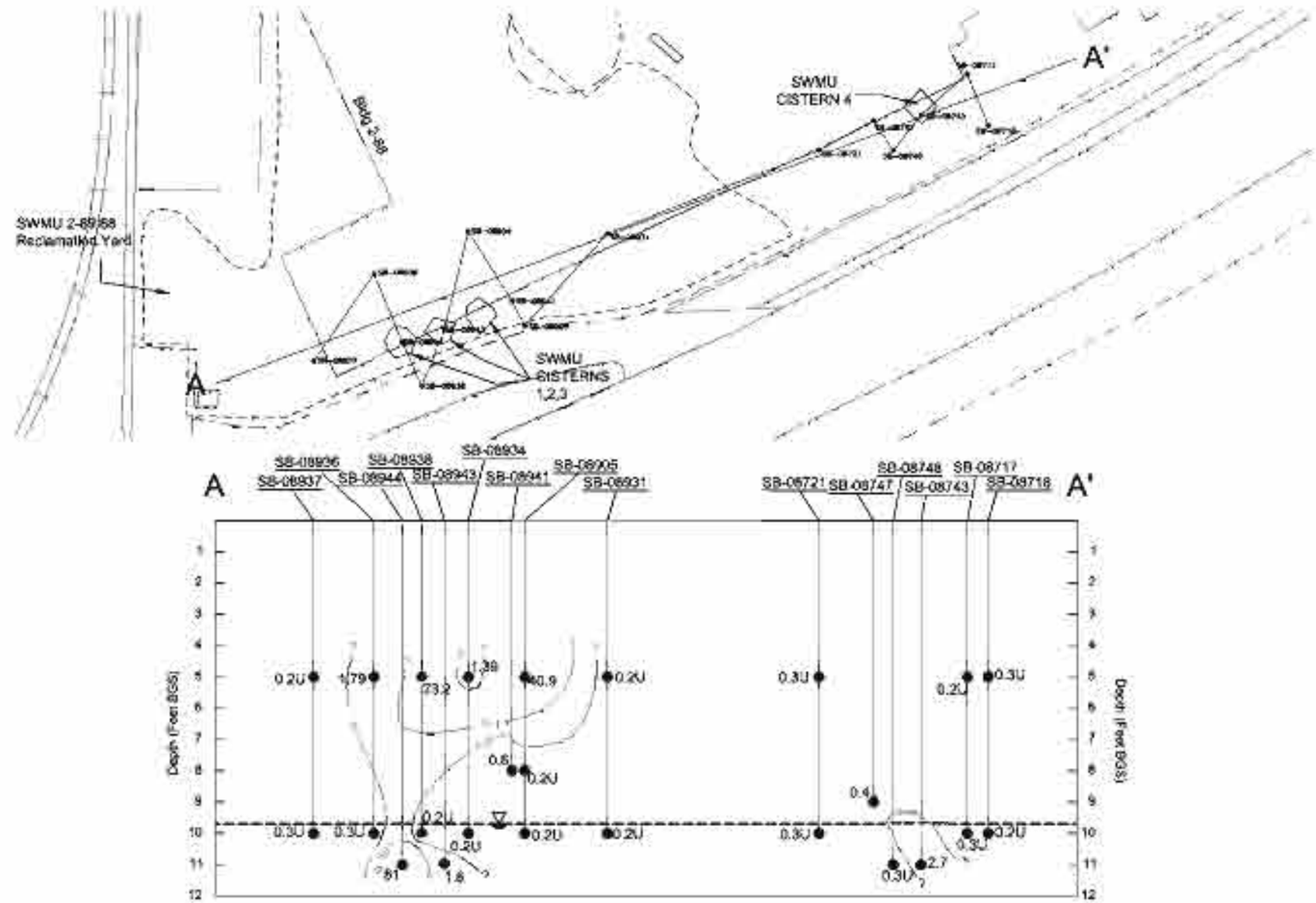
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CADMIUM IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_CADMIUMSY3B.mxd

Golder Associates



NOTE:
SOIL SCREENING LEVEL FOR CADMIUM = 1.01 mg/kg
SOIL ISOCONCENTRATION CONTOUR (µg/kg)

● 0.70 CADMIUM CONCENTRATION (µg/kg)

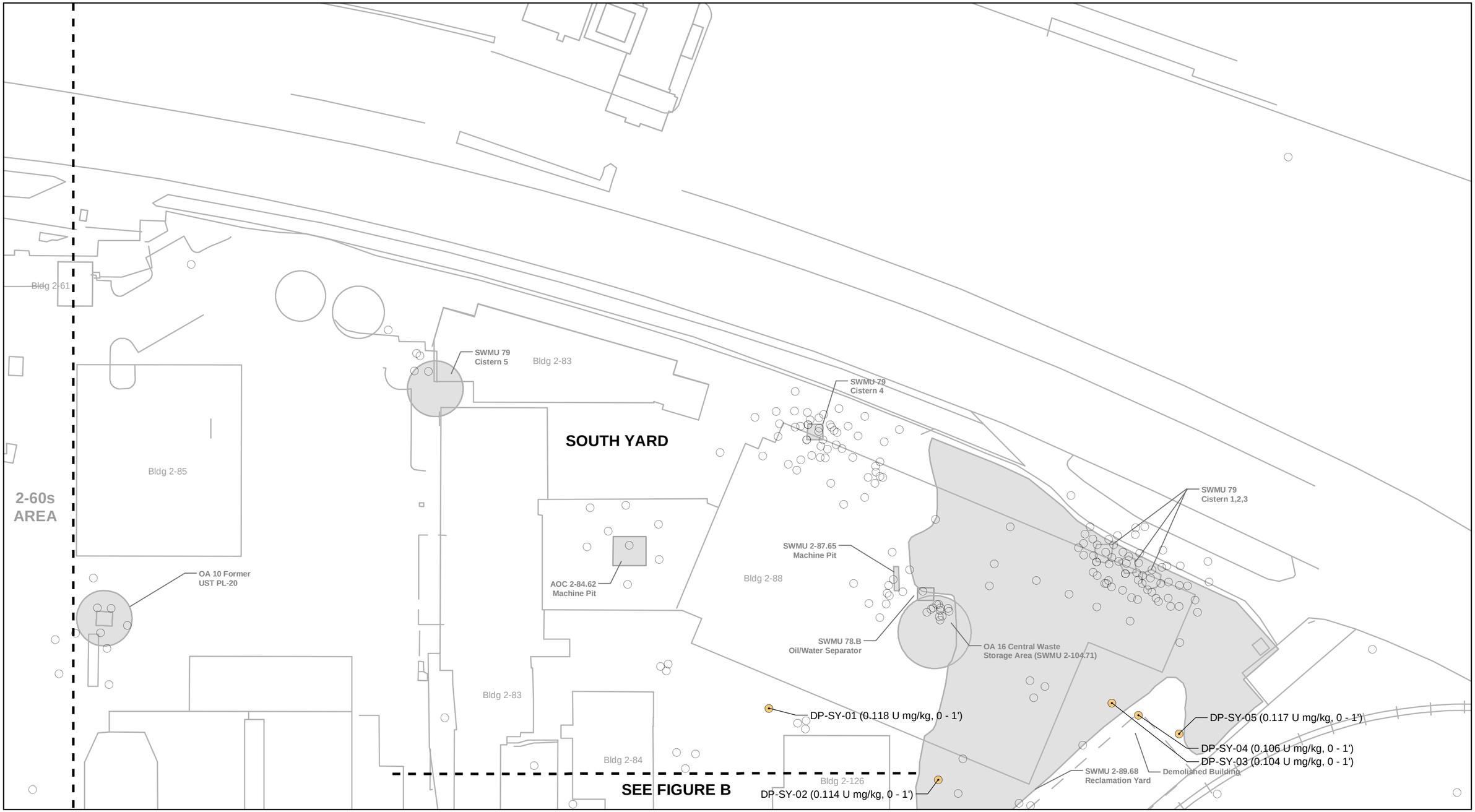
APPROXIMATE WATER TABLE - March 2005

0 70

HORIZONTAL SCALE 1"=70'
15X VERTICAL EXAGGERATION

FIGURE 4
SOUTH YARD AREA
CADMIUM IN SOIL CROSS-SECTION A-A'
BOEING PLANT 2

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19.2 mg/kg
Proposed Media Cleanup Level (PMCL) = N/A mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CHROMIUM(VI) IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_CHROMIUMSY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-117

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SOUTH YARD

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental
Partners, Golder Associates

Soil Screening Level = 19.2 µg/kg
Proposed Media Cleanup Level (PMCL) = ?? µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

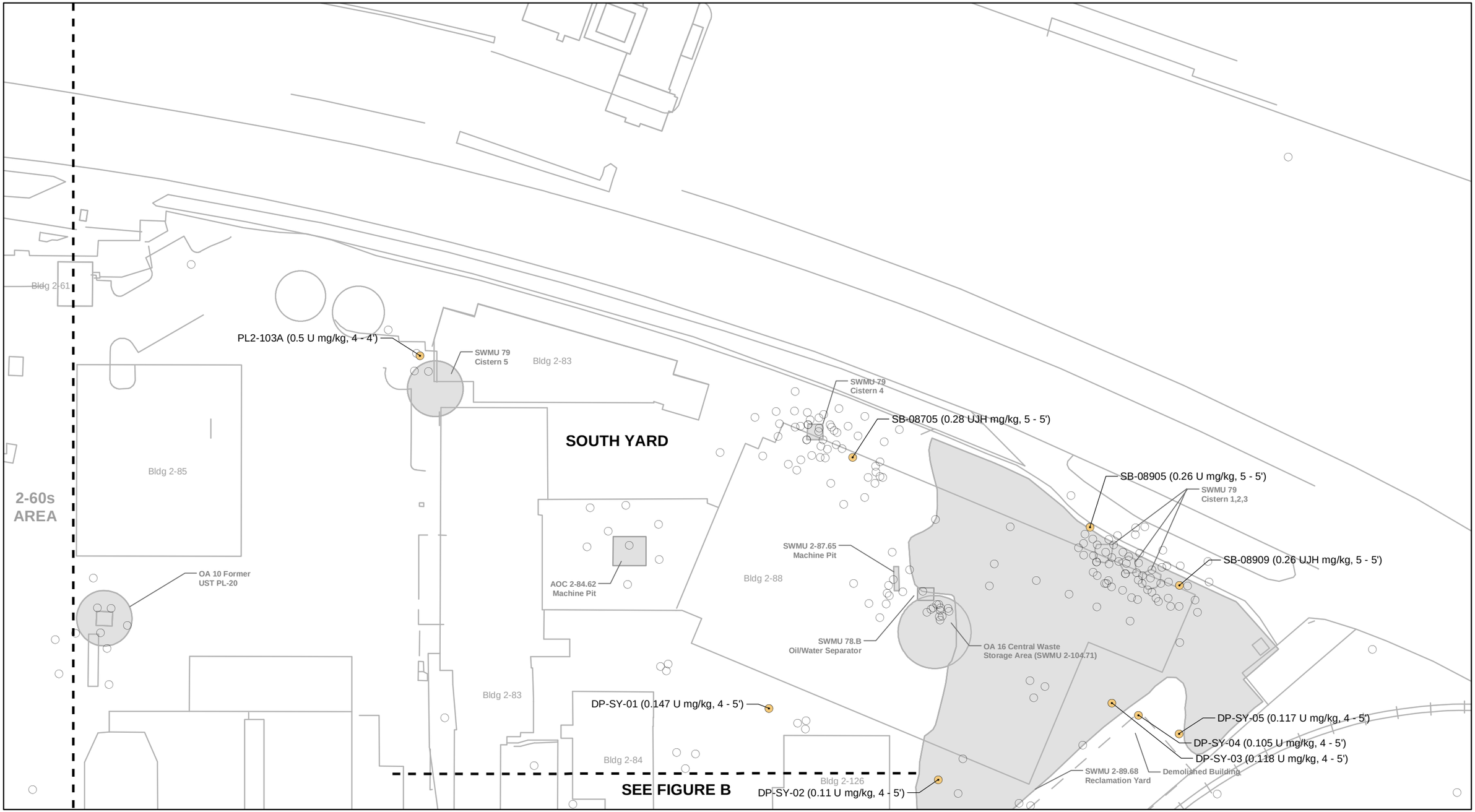
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CHROMIUM(VI) IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_CHROMIUMSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19.2 mg/kg
Proposed Media Cleanup Level (PMCL) = N/A mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CHROMIUM(VI) IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_CHROMIUMSY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-117

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SOUTH YARD

SWMU 2-80.57 Generator Sump

2-60s
AREA

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SB-08008 (0.22 U mg/kg, 3.5 - 3.5')

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19.2 µg/kg
Proposed Media Cleanup Level (PMCL) = ?? µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

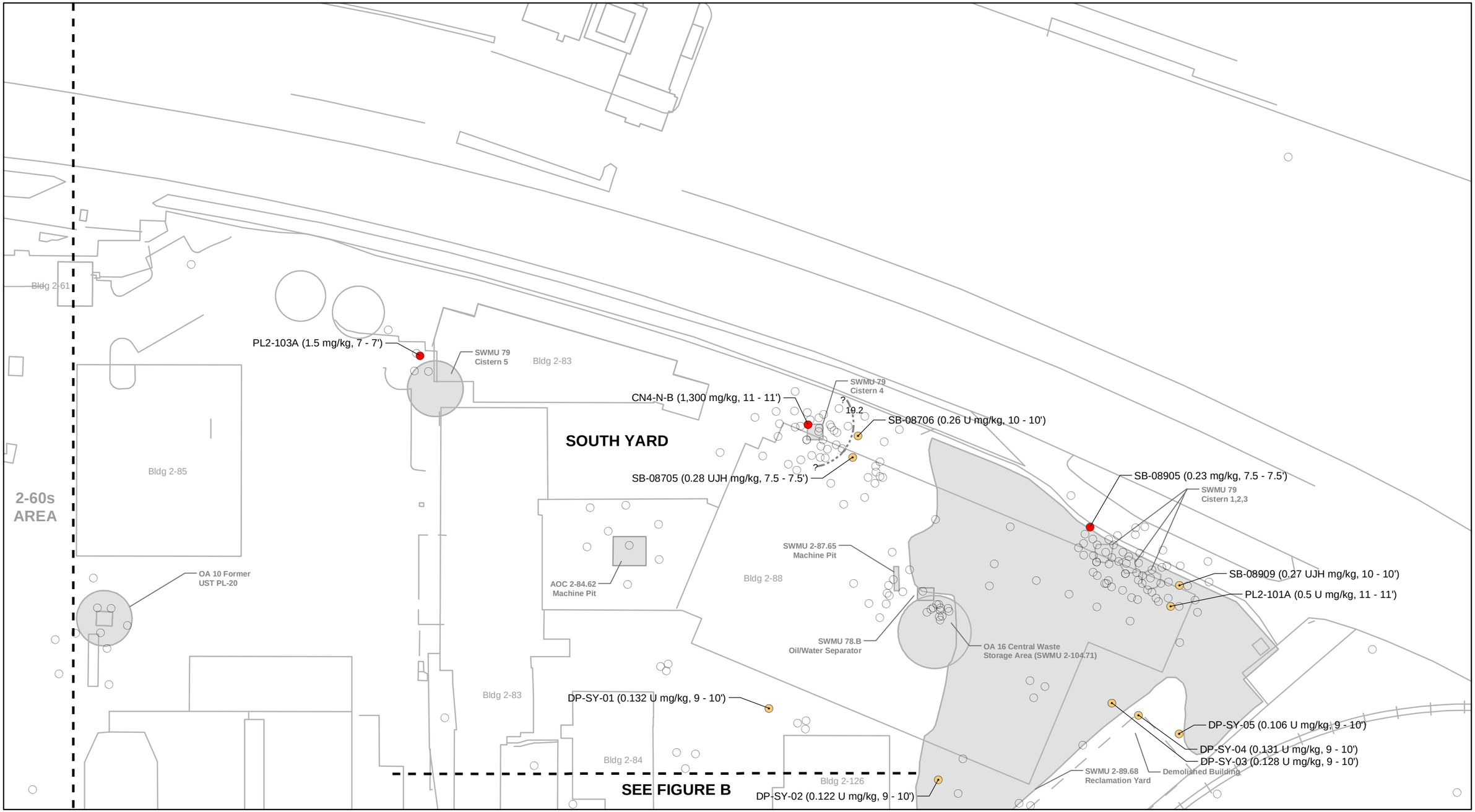
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CHROMIUM(VI) IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_CHROMIUMSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19.2 mg/kg
Proposed Media Cleanup Level (PMCL) = N/A mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CHROMIUM(VI) IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_CHROMIUMSY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-117

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SOUTH YARD

SWMU 2-80.57 Generator Sump

2-60s
AREA

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SB-08008 (0.53 mg/kg, 11.5 - 11.5')

Bldg 2- 81

SWMU 2-78.1
Oil/Water Separator

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (0.27 UJH mg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental
Partners, Golder Associates

Soil Screening Level = 19.2 µg/kg
Proposed Media Cleanup Level (PMCL) = ?? µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

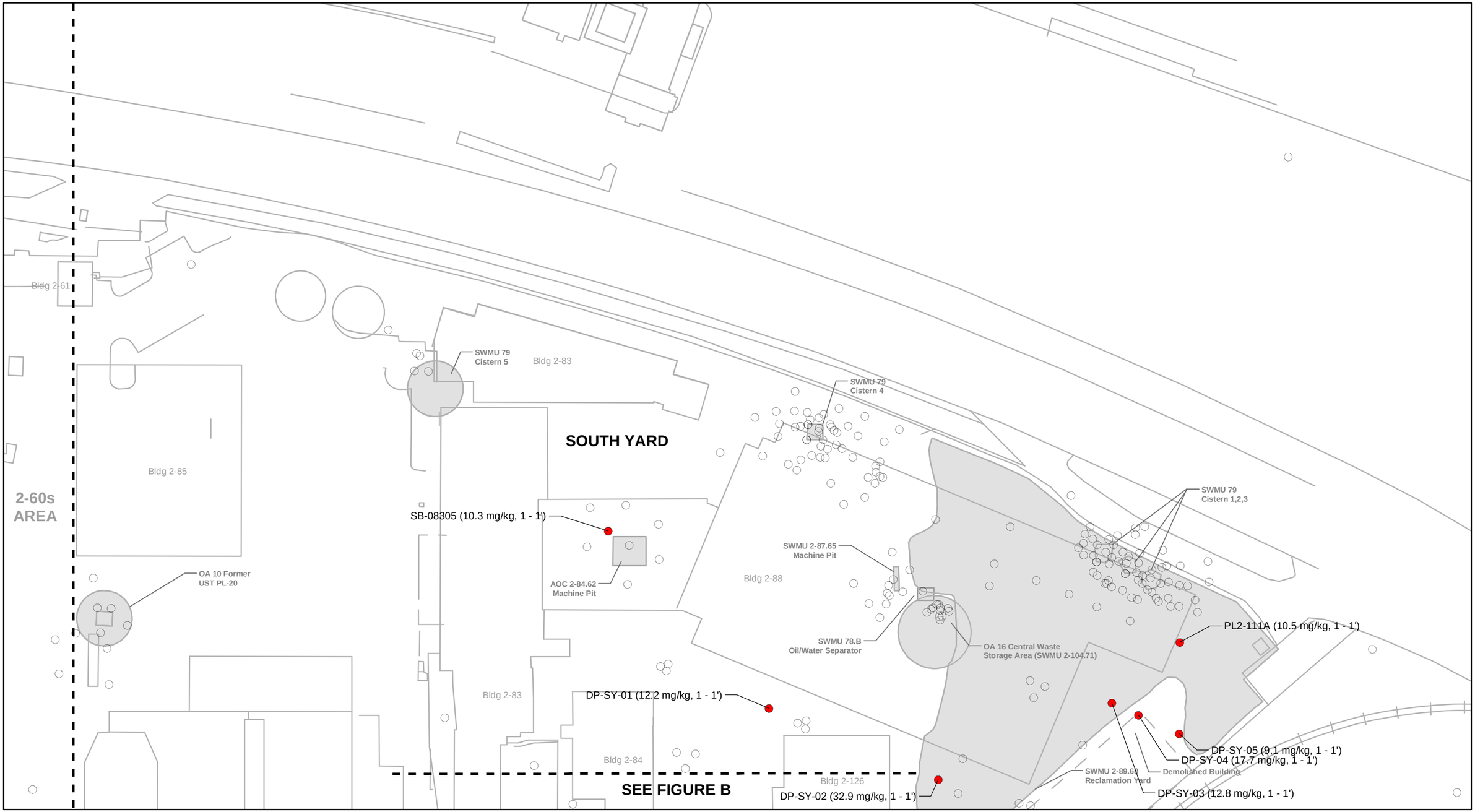
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CHROMIUM(VI) IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_CHROMIUMSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 36.4 mg/kg
Proposed Media Cleanup Level (PMCL) = 36.4 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

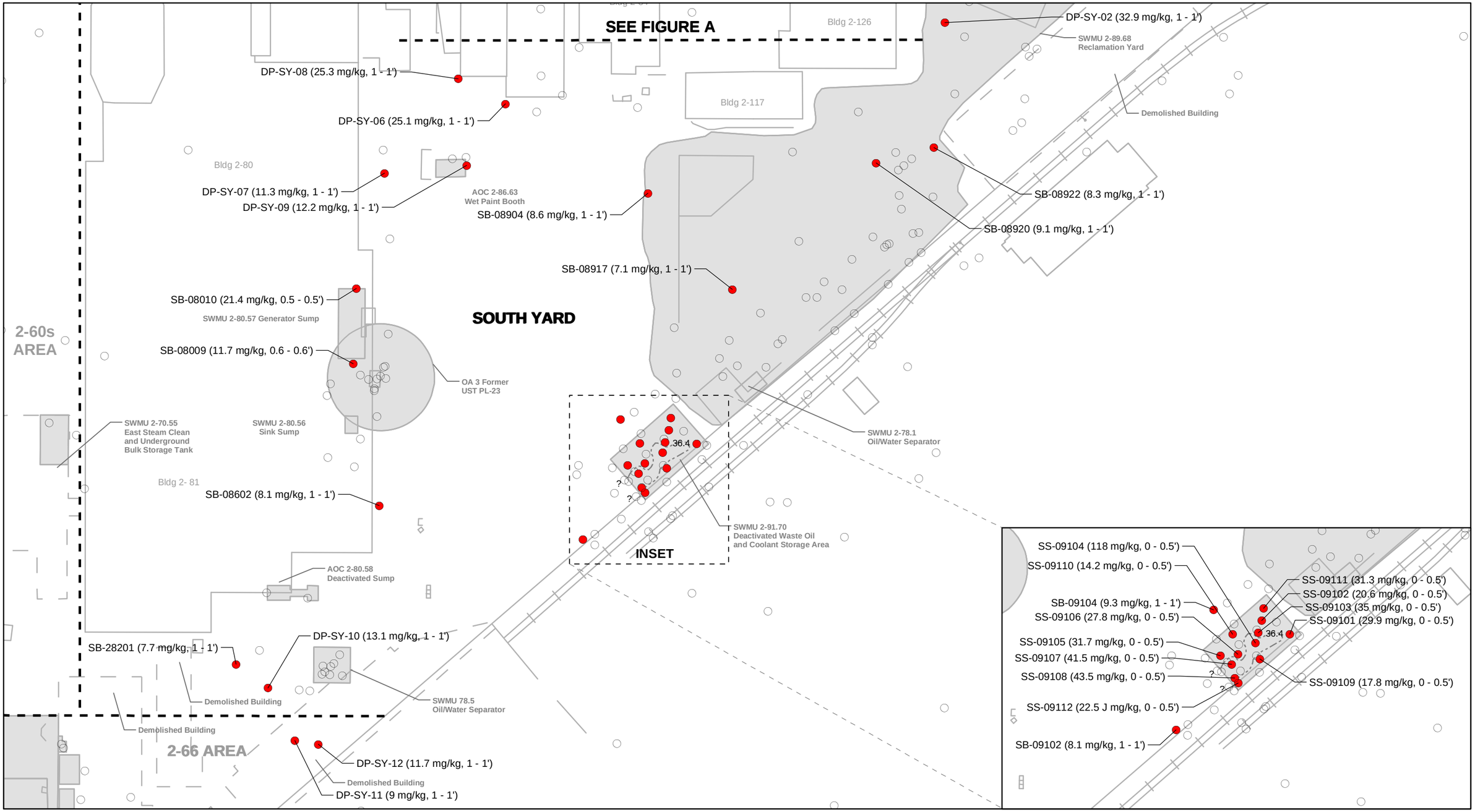
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
COPPER IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_COPPERSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 36.4 mg/kg
Proposed Media Cleanup Level (PMCL) = 36.4 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

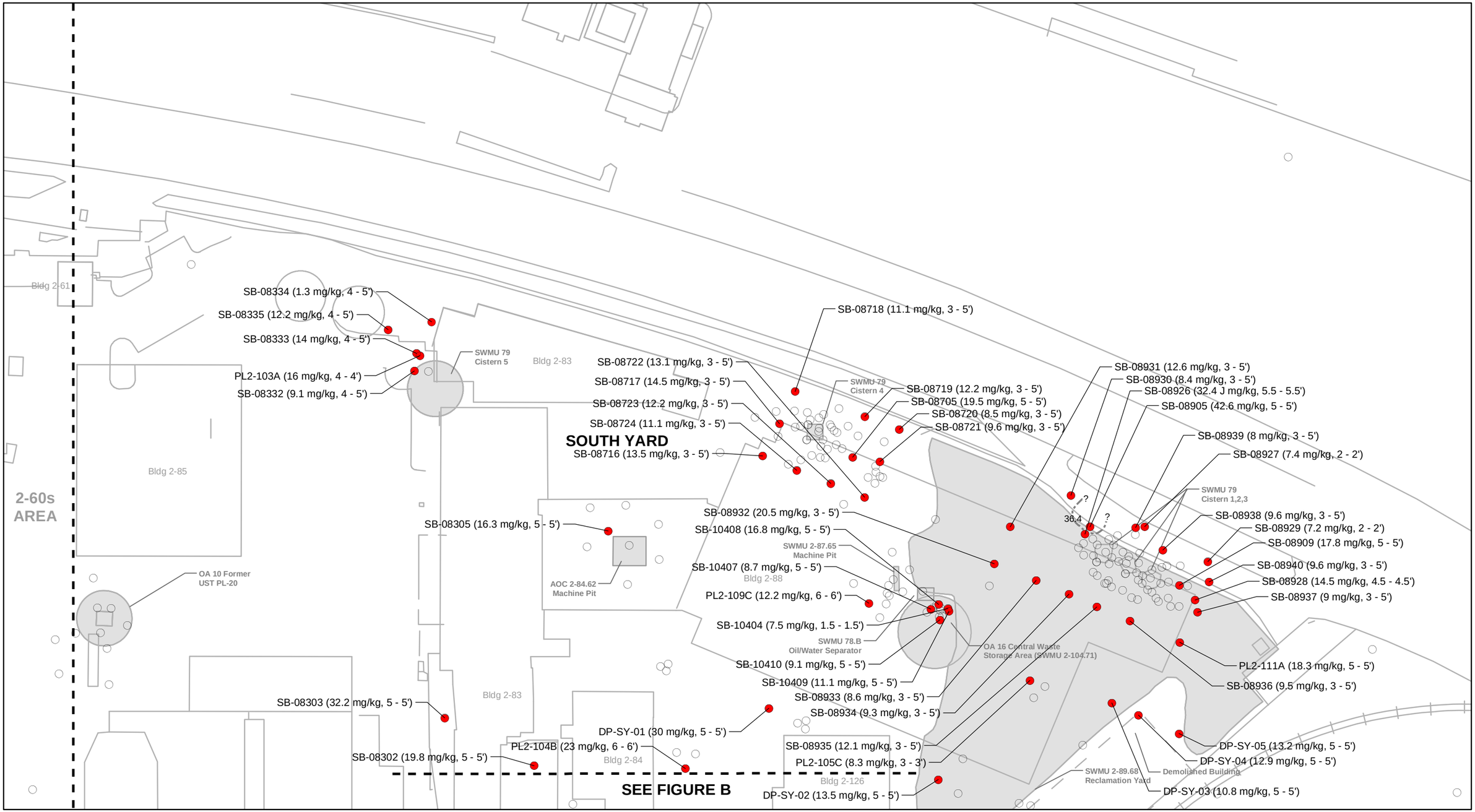
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
COPPER IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_COPPERSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 36.4 mg/kg
Proposed Media Cleanup Level (PMCL) = 36.4 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

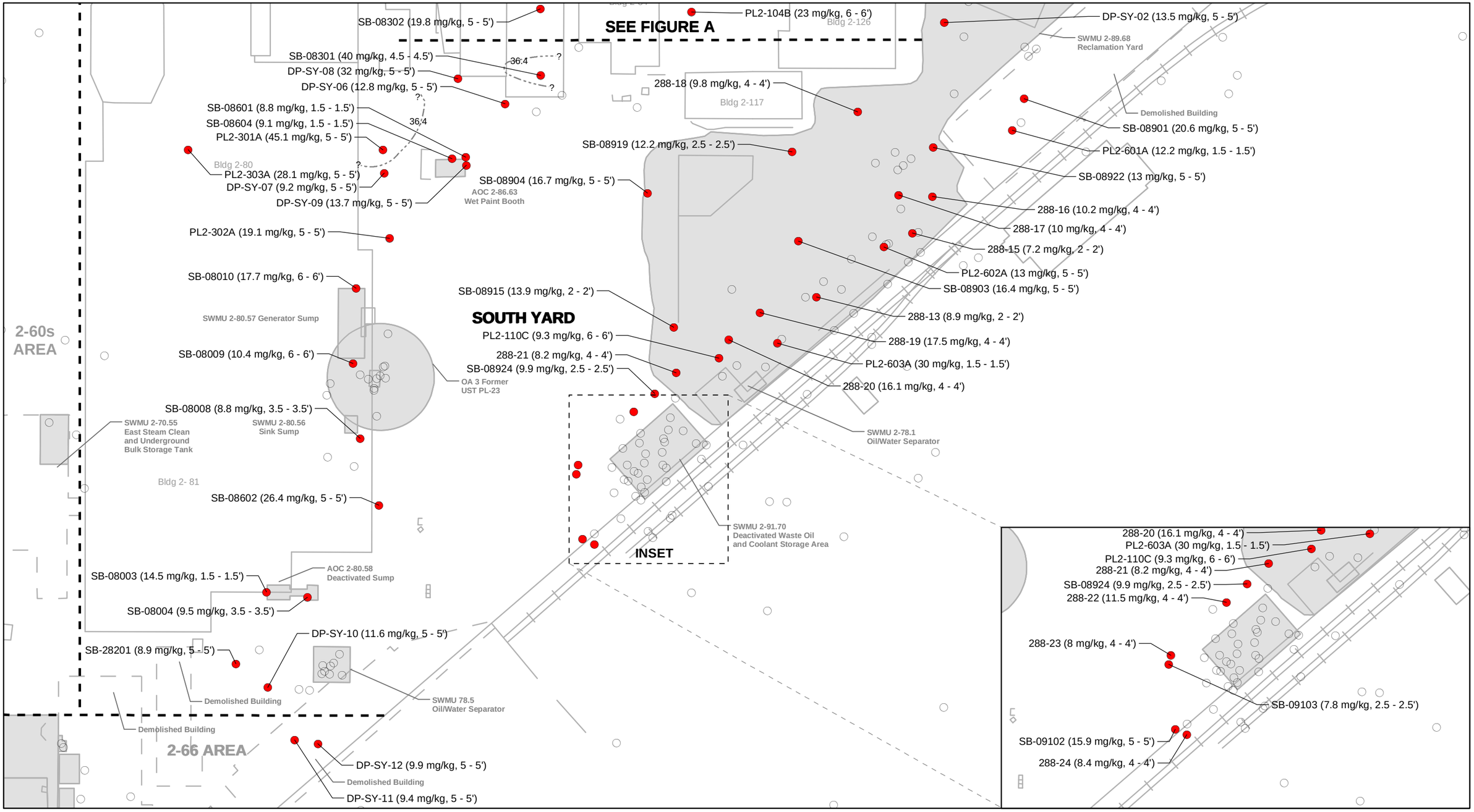
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
COPPER IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_COPPERSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 36.4 mg/kg
Proposed Media Cleanup Level (PMCL) = 36.4 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

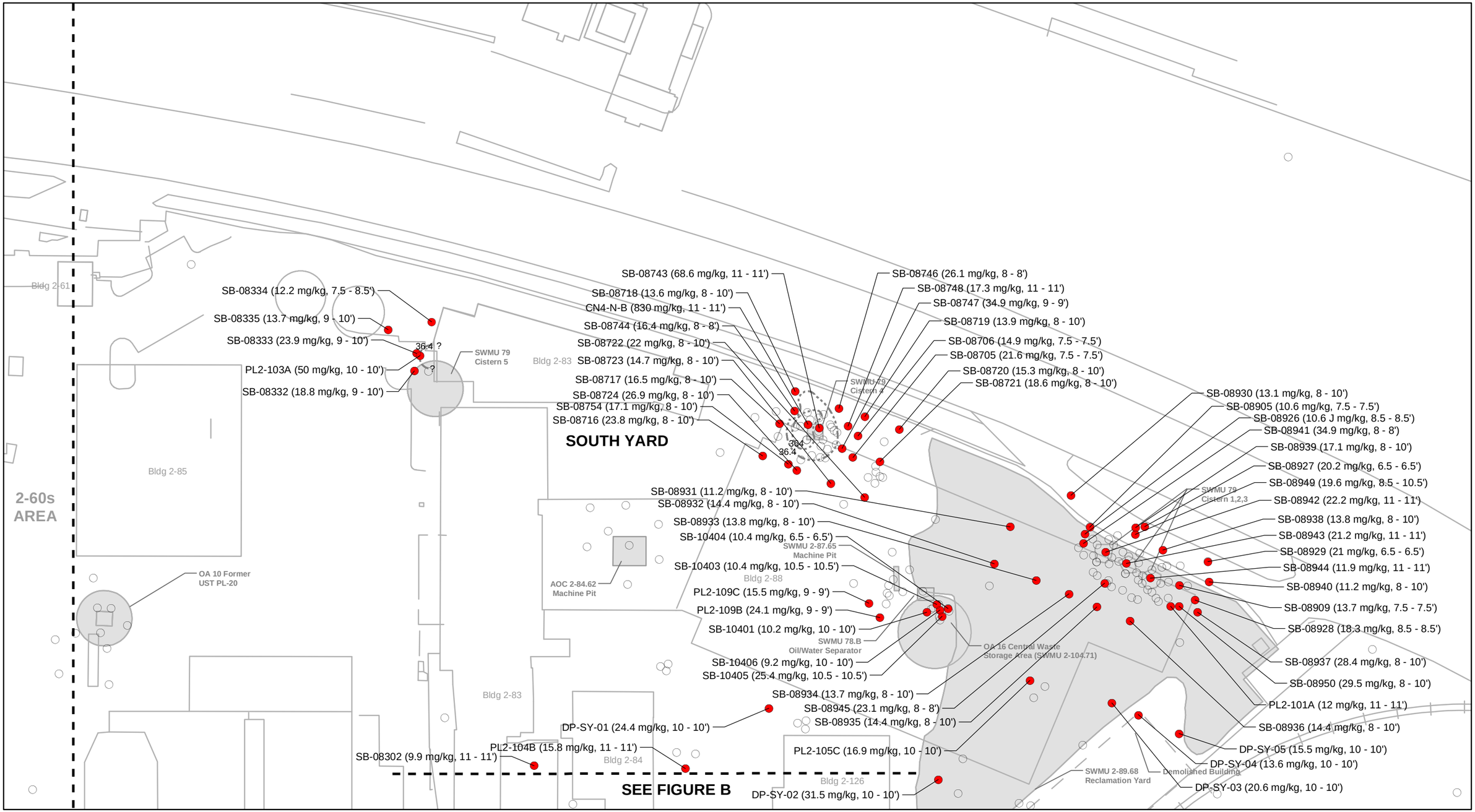
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
COPPER IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_COPPERSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 36.4 mg/kg
Proposed Media Cleanup Level (PMCL) = 36.4 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
COPPER IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_COPPERSY3A.mxd

Golder Associates

SB-08302 (9.9 mg/kg, 11 - 11')
PL2-104B (15.8 mg/kg, 11 - 11')
SEE FIGURE A
Bldg 2-126
SWMU 2-89.68 Reclamation Yard
DP-SY-02 (31.5 mg/kg, 10 - 10')
SB-08301 (18.4 mg/kg, 11.5 - 11.5')
DP-SY-08 (25.4 mg/kg, 10 - 10')
DP-SY-06 (24.2 mg/kg, 10 - 10')
Bldg 2-117
Demolished Building
SB-08901 (19.9 mg/kg, 7.5 - 7.5')
PL2-601A (14.2 mg/kg, 10 - 10')
SB-08601 (30.8 mg/kg, 7 - 7')
SB-08604 (26.4 mg/kg, 9 - 9')
PL2-301A (12.9 mg/kg, 10 - 10')
SB-08919 (26.3 mg/kg, 7.5 - 7.5')
Bldg 2-80
PL2-303A (20.2 mg/kg, 10 - 10')
DP-SY-07 (16.5 mg/kg, 10 - 10')
DP-SY-09 (13.1 mg/kg, 10 - 10')
AOC 2-86.63 Wet Paint Booth
SB-08922 (14.5 mg/kg, 10 - 10')
PL2-106C (21.8 mg/kg, 7 - 7')
SB-08920 (18.9 mg/kg, 7.5 - 7.5')
PL2-302A (19 mg/kg, 10 - 10')
PL2-602A (17.8 mg/kg, 10 - 10')
SB-08917 (25.3 mg/kg, 10 - 10')
SB-08915 (27.1 mg/kg, 7.5 - 7.5')
SWMU 2-80.57 Generator Sump
SOUTH YARD
2-60s AREA
SB-08924 (32.1 mg/kg, 7.5 - 7.5')
OA 3 Former UST PL-23
PL2-603A (14.7 mg/kg, 10 - 10')
PL2-110C (21.5 mg/kg, 9 - 9')
SB-08008 (16.3 mg/kg, 11.5 - 11.5')
SWMU 2-70.55 East Steam Clean and Underground Bulk Storage Tank
SWMU 2-80.56 Sink Sump
SWMU 2-78.1 Oil/Water Separator
Bldg 2- 81
SWMU 2-91.70 Deactivated Waste Oil and Coolant Storage Area
INSET
AOC 2-80.58 Deactivated Sump
SB-08003 (21.5 mg/kg, 10 - 10')
SB-08004 (12.7 mg/kg, 12 - 12')
SB-08201 (12.8 mg/kg, 11 - 11')
DP-SY-10 (22 mg/kg, 10 - 10')
Demolished Building
SWMU 78.5 Oil/Water Separator
Demolished Building
2-66 AREA
DP-SY-12 (9.9 mg/kg, 10 - 10')
Demolished Building
DP-SY-11 (23.8 mg/kg, 10 - 10')

PL2-603A (14.7 mg/kg, 10 - 10')
PL2-110C (21.5 mg/kg, 9 - 9')
SB-08924 (32.1 mg/kg, 7.5 - 7.5')
SB-09104 (25.9 mg/kg, 7.5 - 7.5')
SB-09103 (27.8 mg/kg, 7.5 - 7.5')
SB-09102 (28.3 mg/kg, 7.5 - 7.5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 36.4 mg/kg
Proposed Media Cleanup Level (PMCL) = 36.4 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

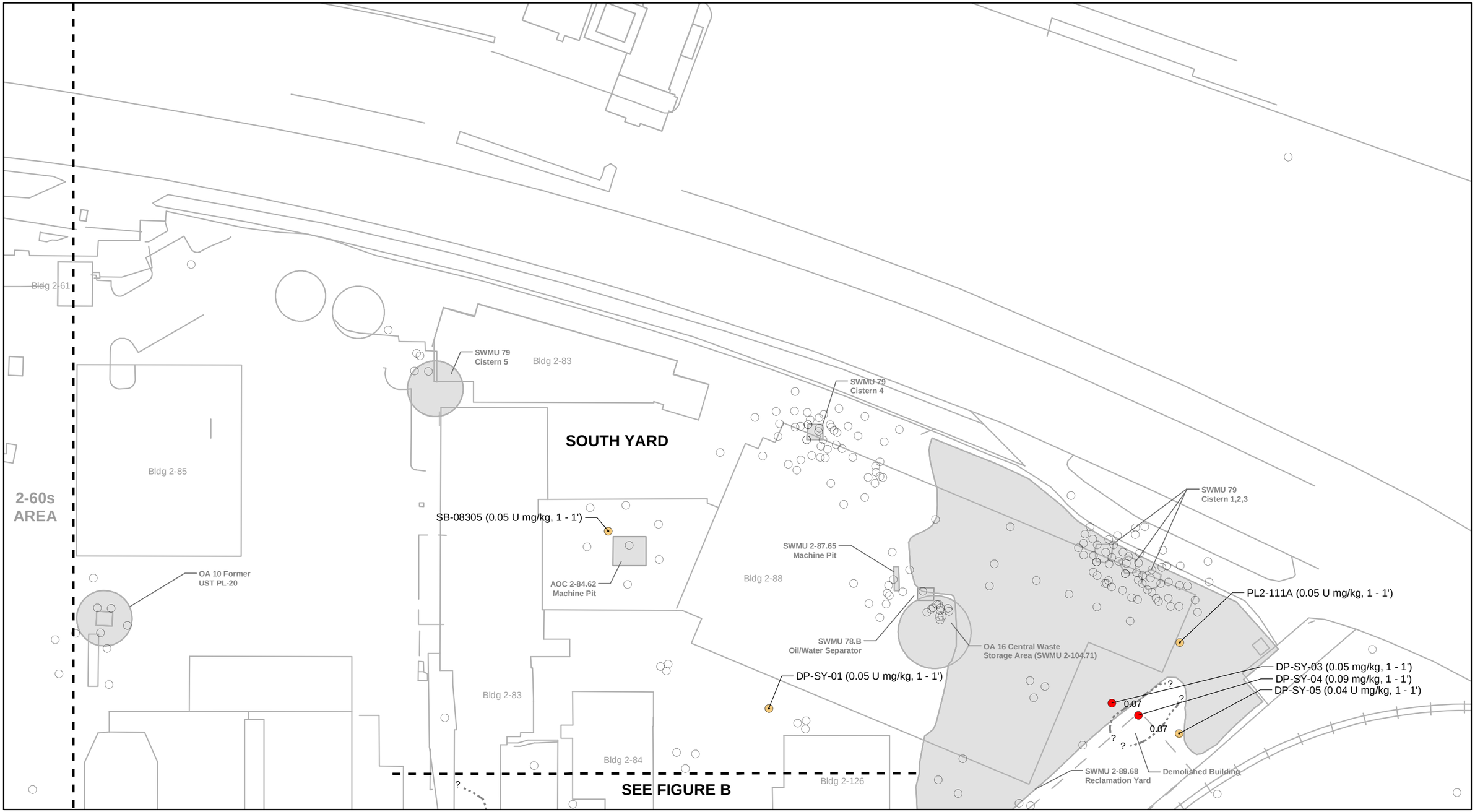
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
COPPER IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_COPPERSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.07 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.07 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

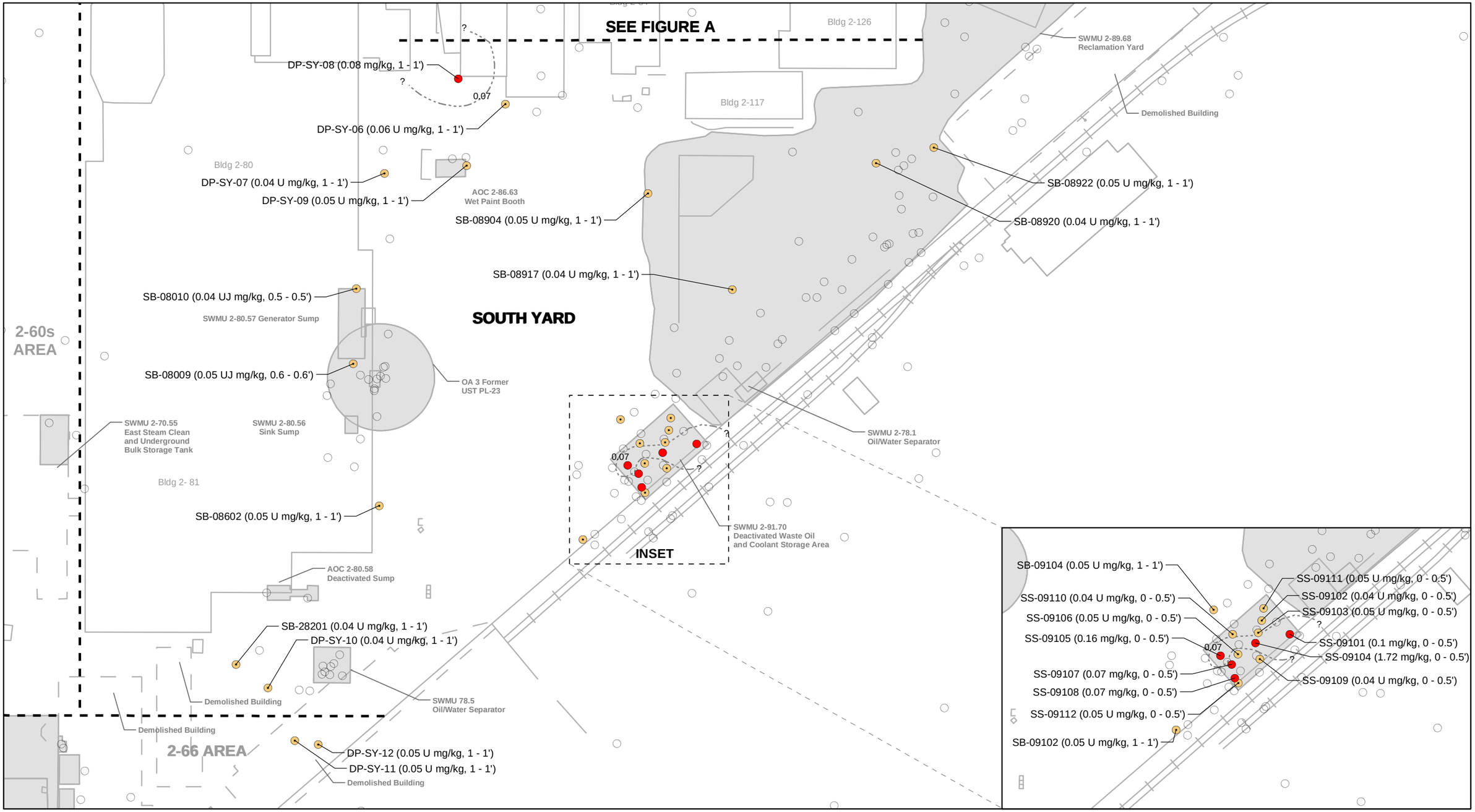
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
MERCURY IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_MERCURYSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.07 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.07 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

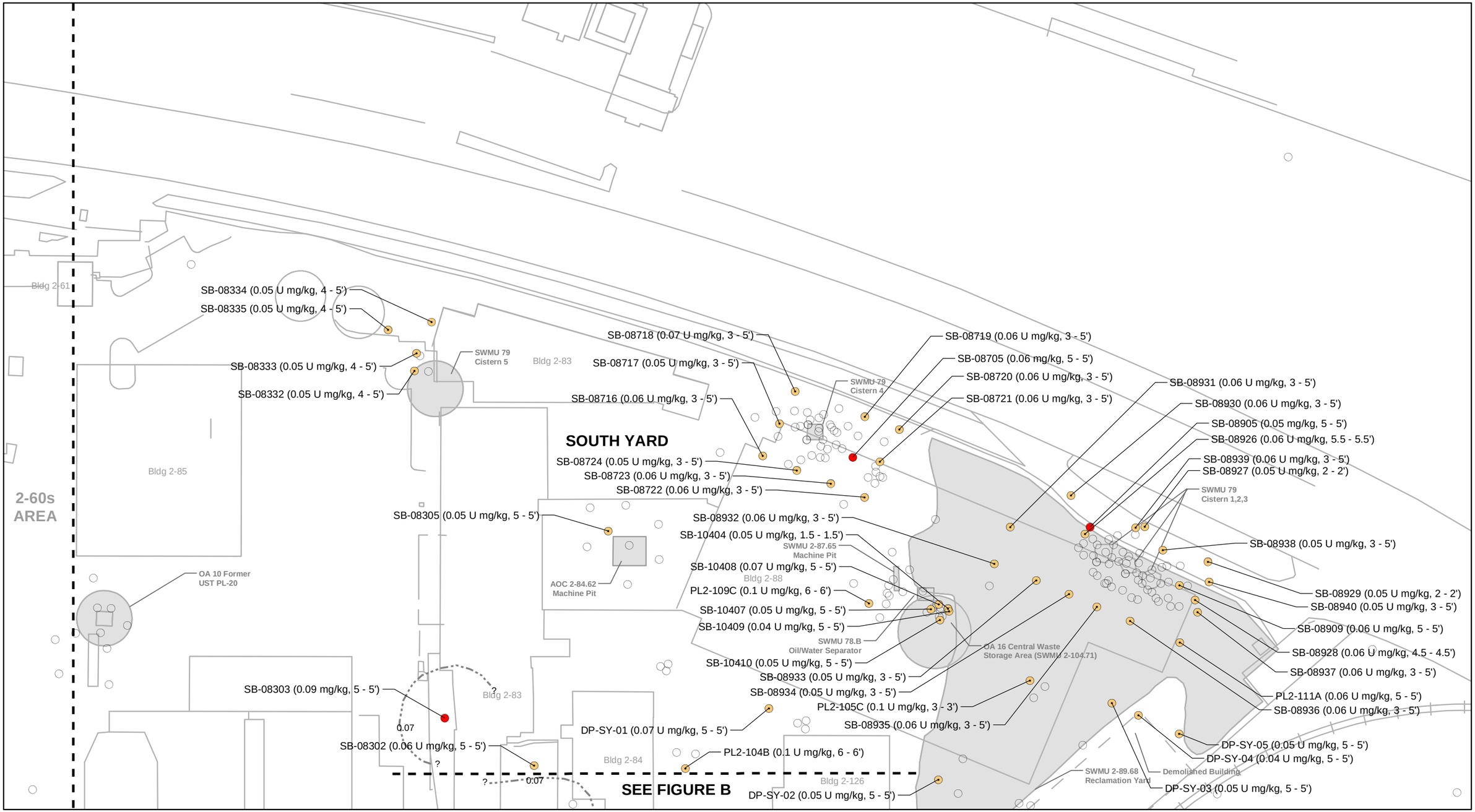
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
MERCURY IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_MERCURYSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.07 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.07 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

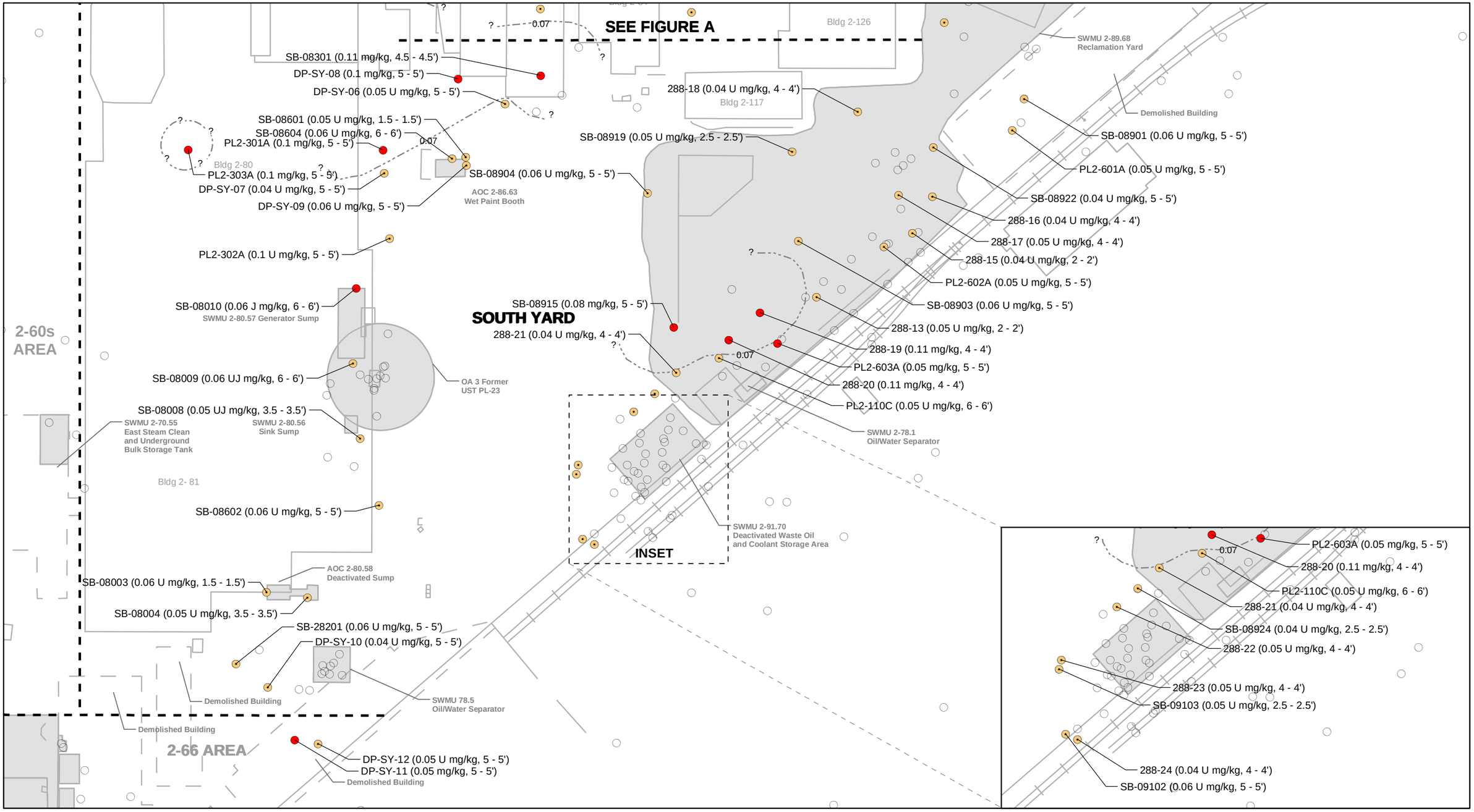
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
MERCURY IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_MERCURYSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.07 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.07 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

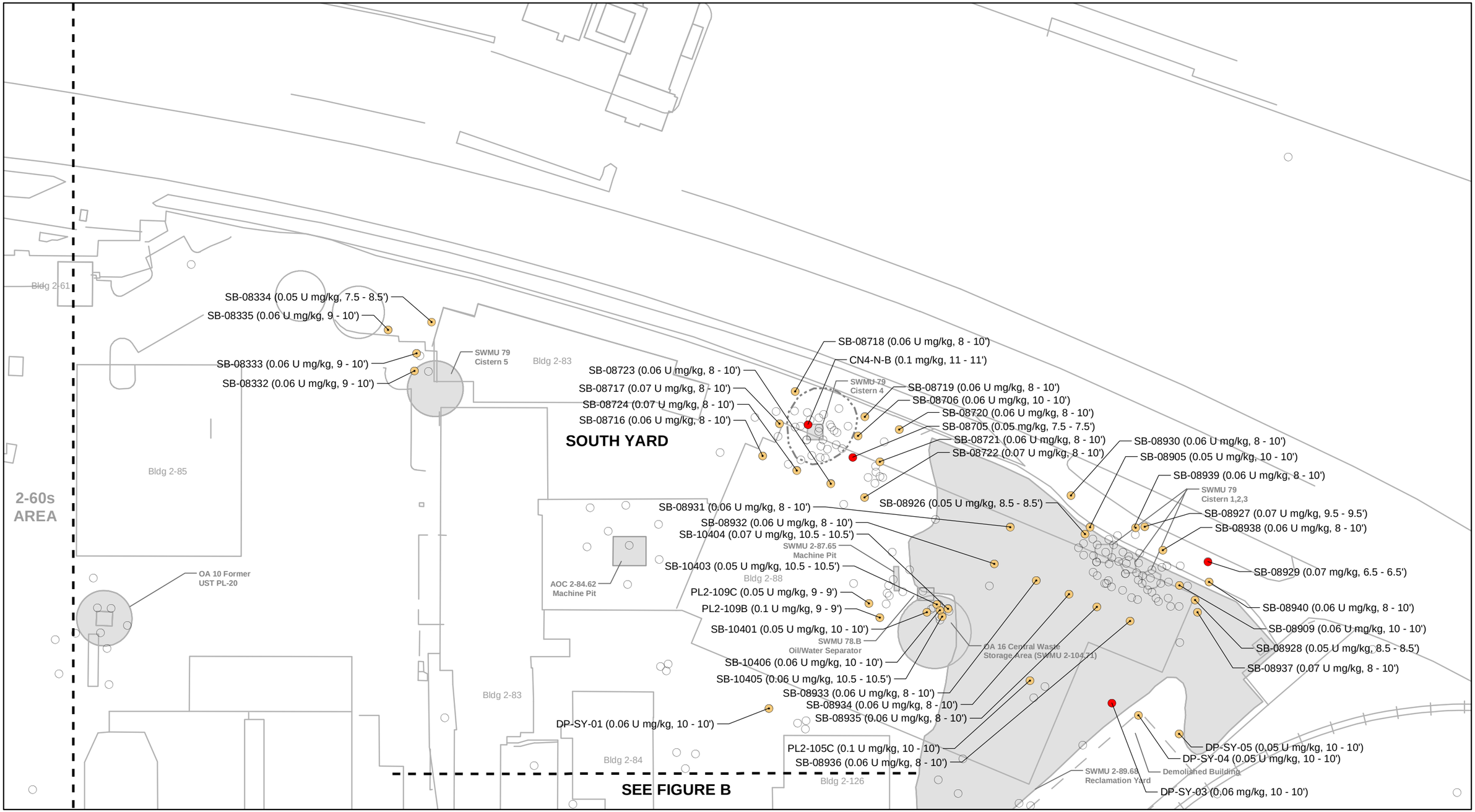
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
MERCURY IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_MERCURYSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.07 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.07 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
MERCURY IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_MERCURYSY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

Bldg 2-117

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08301 (0.05 U mg/kg, 11.5 - 11.5')
DP-SY-08 (0.07 U mg/kg, 10 - 10')
DP-SY-06 (0.05 U mg/kg, 10 - 10')
SB-08601 (0.11 mg/kg, 7 - 7')
SB-08604 (0.06 U mg/kg, 9 - 9')
PL2-301A (0.05 U mg/kg, 10 - 10')
0.07
?
Bldg 2-80
PL2-303A (0.1 U mg/kg, 10 - 10')
DP-SY-07 (0.05 U mg/kg, 10 - 10')
DP-SY-09 (0.05 U mg/kg, 10 - 10')
AOC 2-86.63
Wet Paint Booth

SB-08919 (0.06 U mg/kg, 10 - 10')

SB-08901 (0.06 U mg/kg, 7.5 - 7.5')
PL2-601A (0.05 U mg/kg, 10 - 10')
SB-08922 (0.06 U mg/kg, 10 - 10')
PL2-106C (0.1 U mg/kg, 12 - 12')
SB-08920 (0.06 U mg/kg, 10 - 10')

PL2-302A (0.1 U mg/kg, 10 - 10')

SB-08917 (0.06 mg/kg, 7.5 - 7.5')

PL2-602A (0.06 U mg/kg, 10 - 10')

SB-08915 (0.07 U mg/kg, 7.5 - 7.5')

SOUTH YARD

SWMU 2-80.57 Generator Sump

2-60s
AREA

OA 3 Former
UST PL-23

PL2-603A (0.04 U mg/kg, 10 - 10')
PL2-110C (0.1 U mg/kg, 9 - 9')

SB-08008 (0.05 UJ mg/kg, 11.5 - 11.5')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

?
?
0.07

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08003 (0.06 J mg/kg, 10 - 10')
SB-08004 (0.05 U mg/kg, 12 - 12')

DP-SY-10 (0.06 U mg/kg, 10 - 10')

SB-08201 (0.06 U mg/kg, 11 - 11')

SWMU 78.5
Oil/Water Separator

Demolished Building

Demolished Building

2-66 AREA

DP-SY-12 (0.04 U mg/kg, 10 - 10')
DP-SY-11 (0.05 U mg/kg, 10 - 10')
Demolished Building

PL2-603A (0.04 U mg/kg, 10 - 10')
PL2-110C (0.1 U mg/kg, 9 - 9')
SB-08924 (0.06 U mg/kg, 10 - 10')
SB-09104 (0.07 U mg/kg, 7.5 - 7.5')
?
?
0.07
SB-09103 (0.07 mg/kg, 7.5 - 7.5')
SB-09102 (0.06 U mg/kg, 7.5 - 7.5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.07 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.07 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

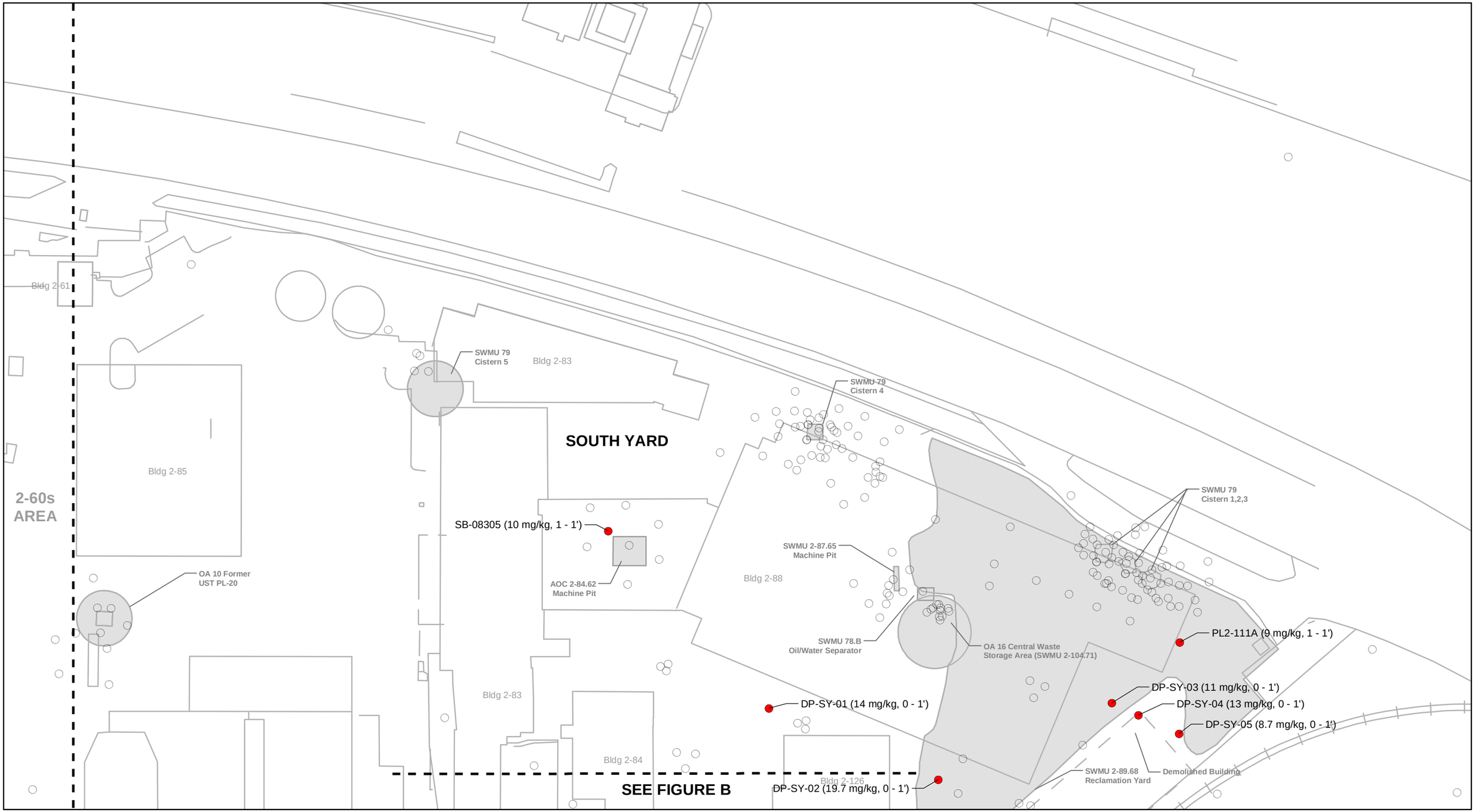
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
MERCURY IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_MERCURYSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 47.8 mg/kg
Proposed Media Cleanup Level (PMCL) = 38.2 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

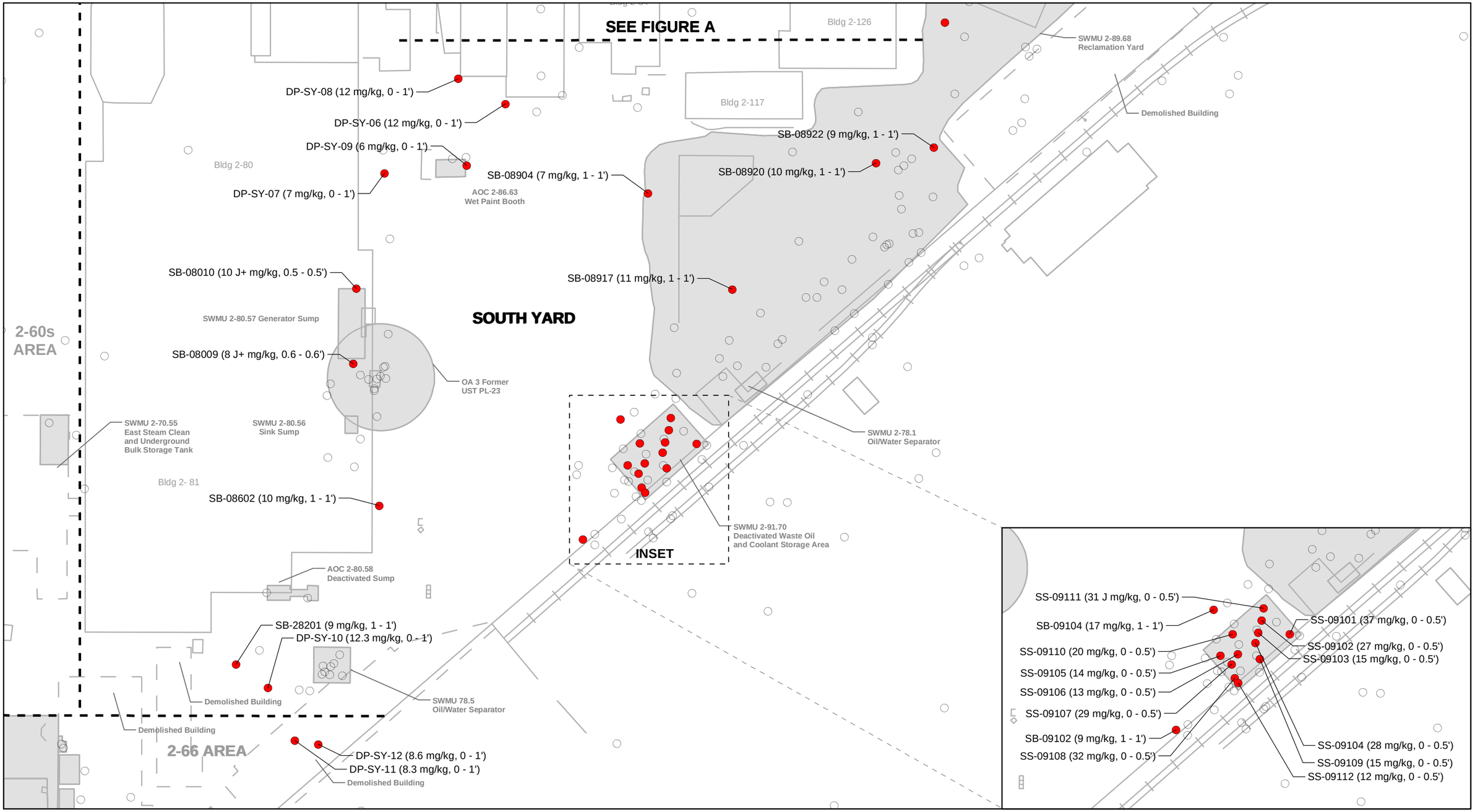
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
NICKEL IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_NICKELSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 47.8 mg/kg
Proposed Media Cleanup Level (PMCL) = 38.2 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

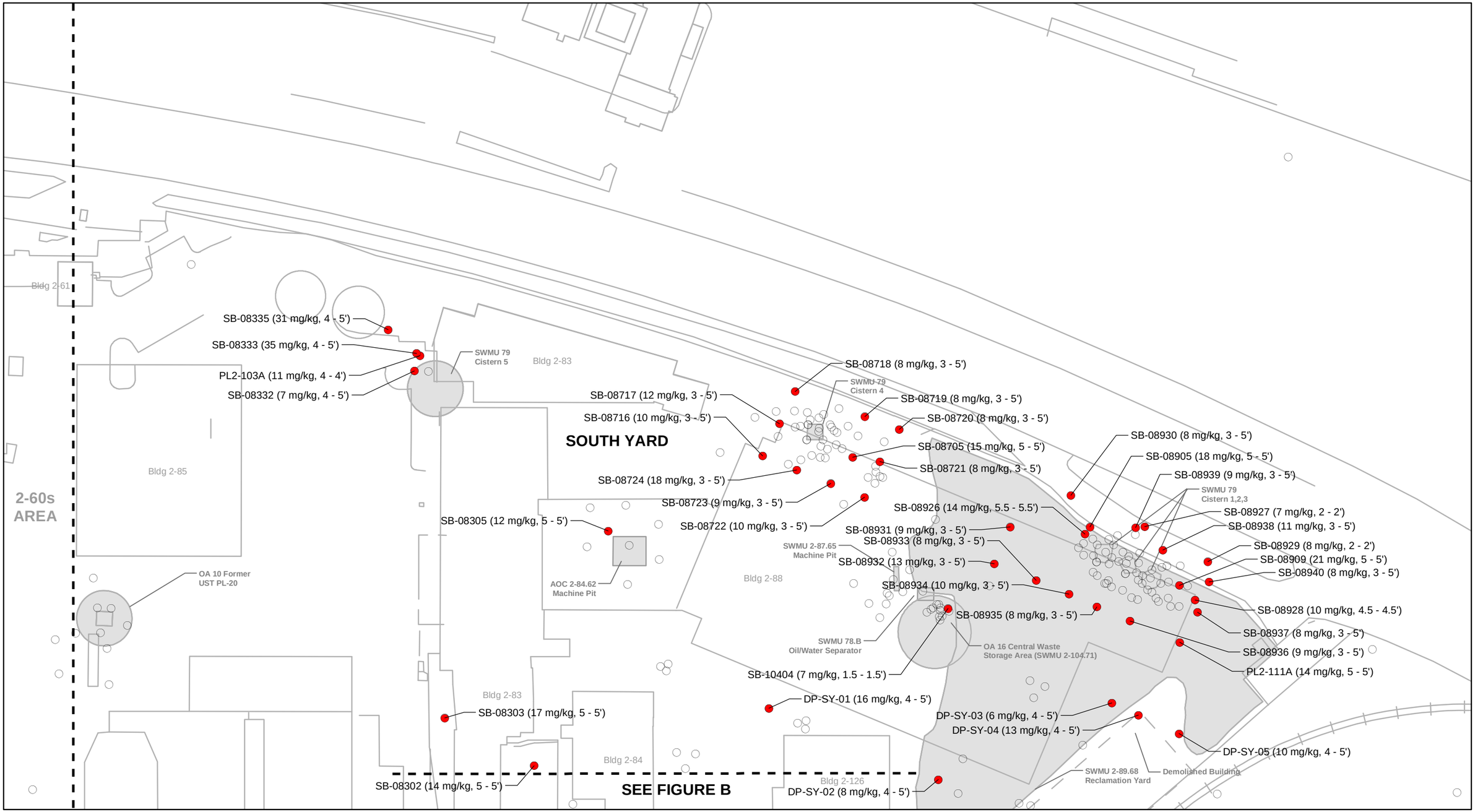
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
NICKEL IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_NICKELSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 47.8 mg/kg
Proposed Media Cleanup Level (PMCL) = 38.2 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

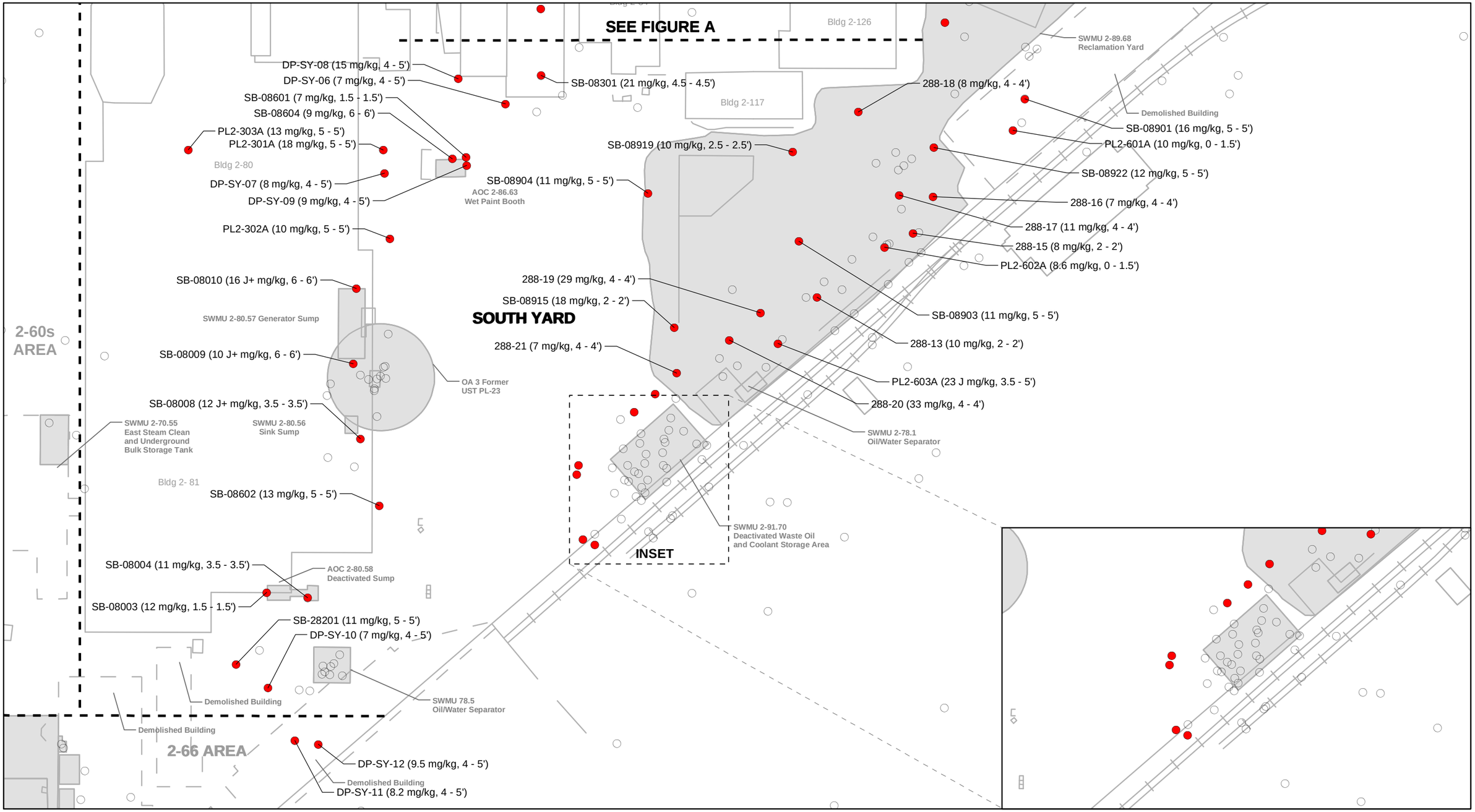
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
NICKEL IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_NICKELSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 47.8 mg/kg
Proposed Media Cleanup Level (PMCL) = 38.2 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

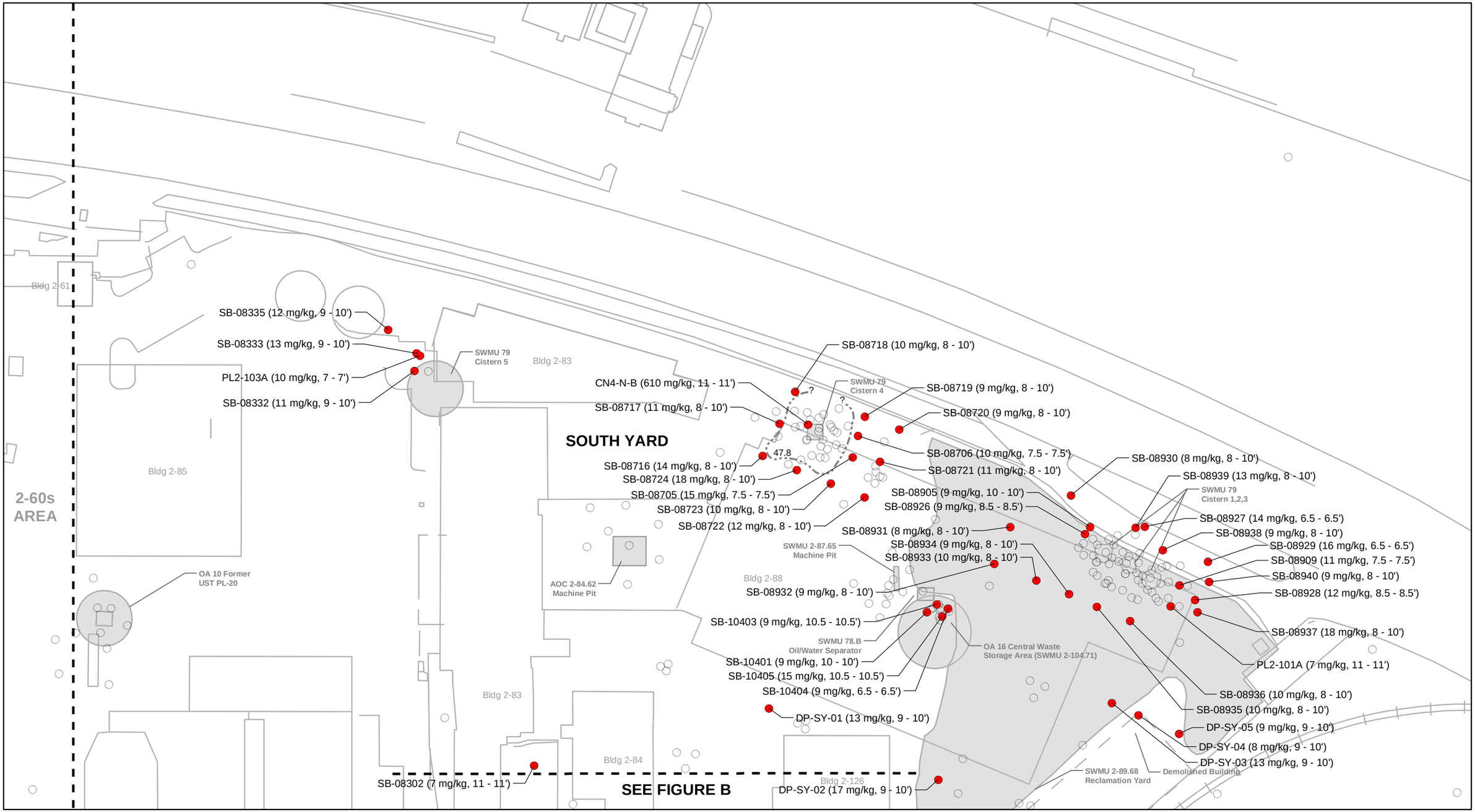
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
NICKEL IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_NICKELSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 47.8 mg/kg
Proposed Media Cleanup Level (PMCL) = 38.2 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

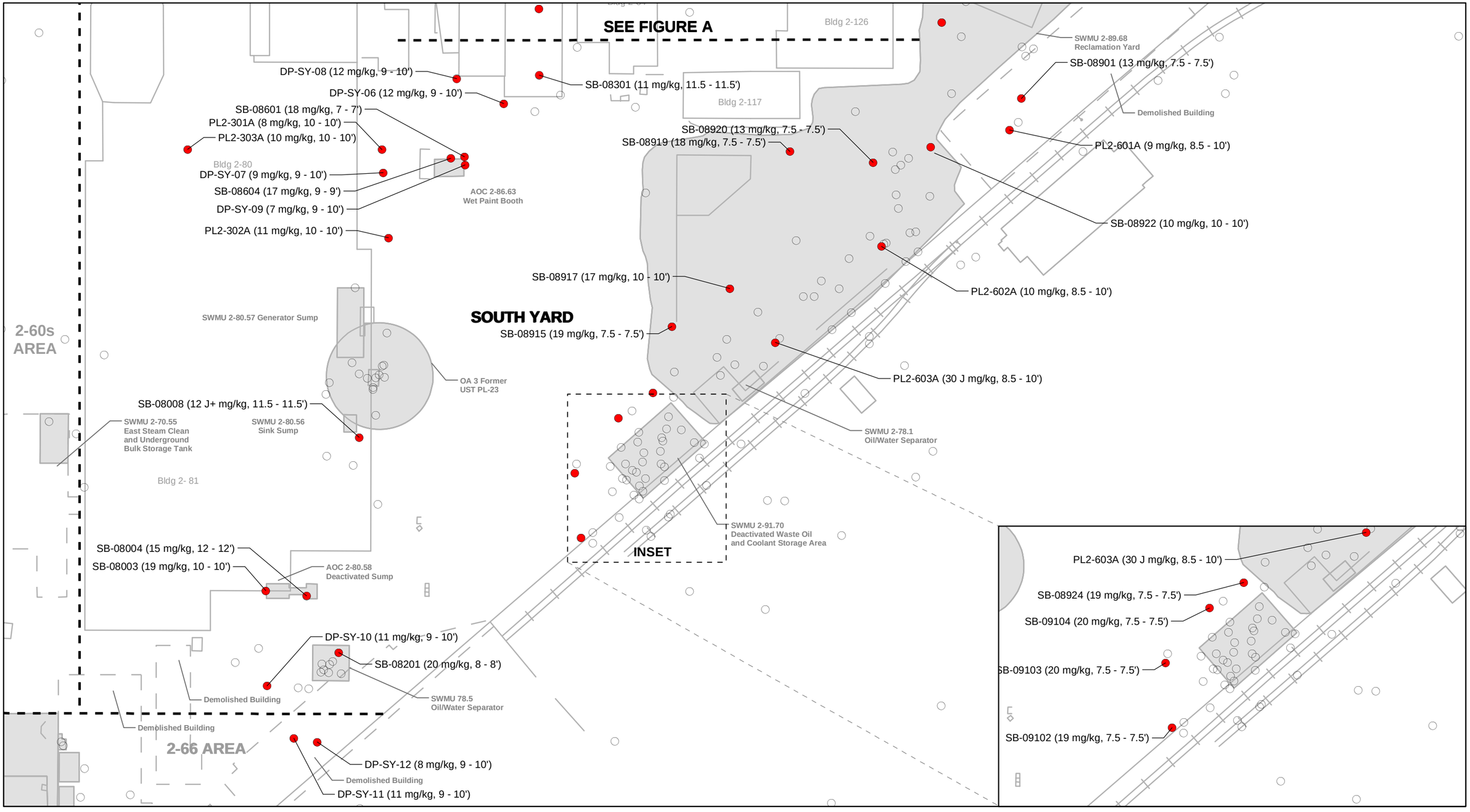
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
NICKEL IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_NICKELSY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 47.8 mg/kg
Proposed Media Cleanup Level (PMCL) = 38.2 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

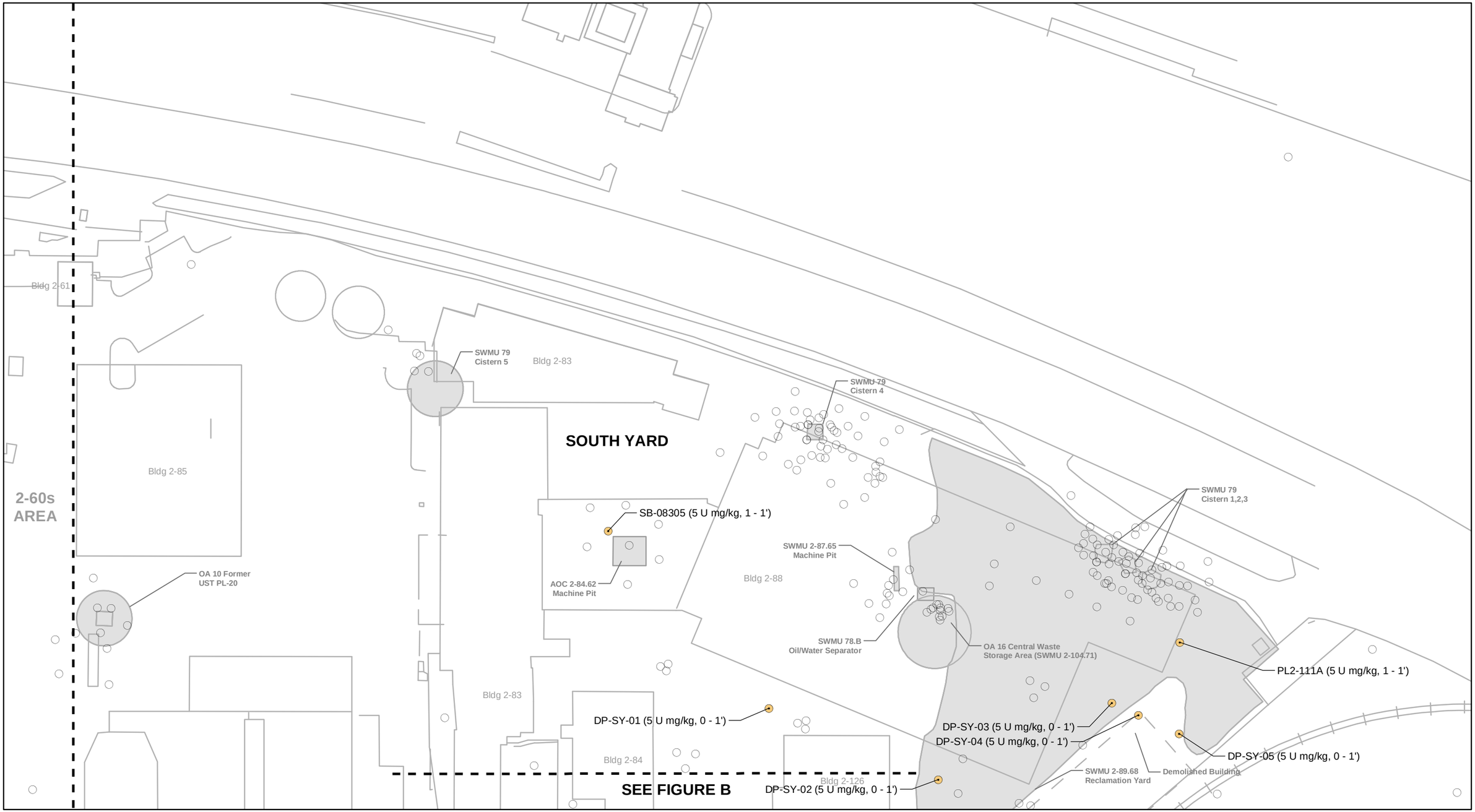
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
NICKEL IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_NICKELSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.38 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

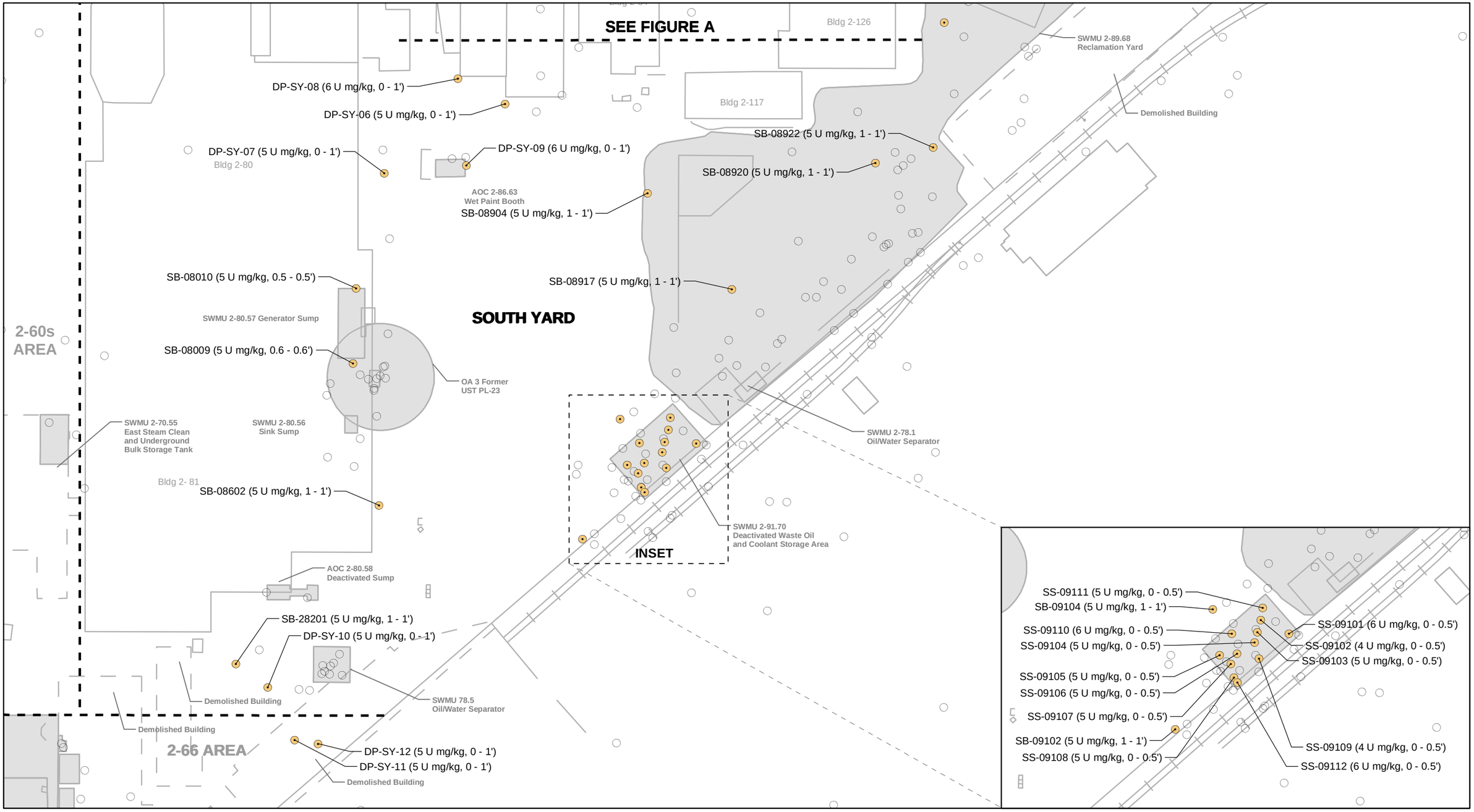
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
SELENIUM IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_SELENIUMSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.38 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

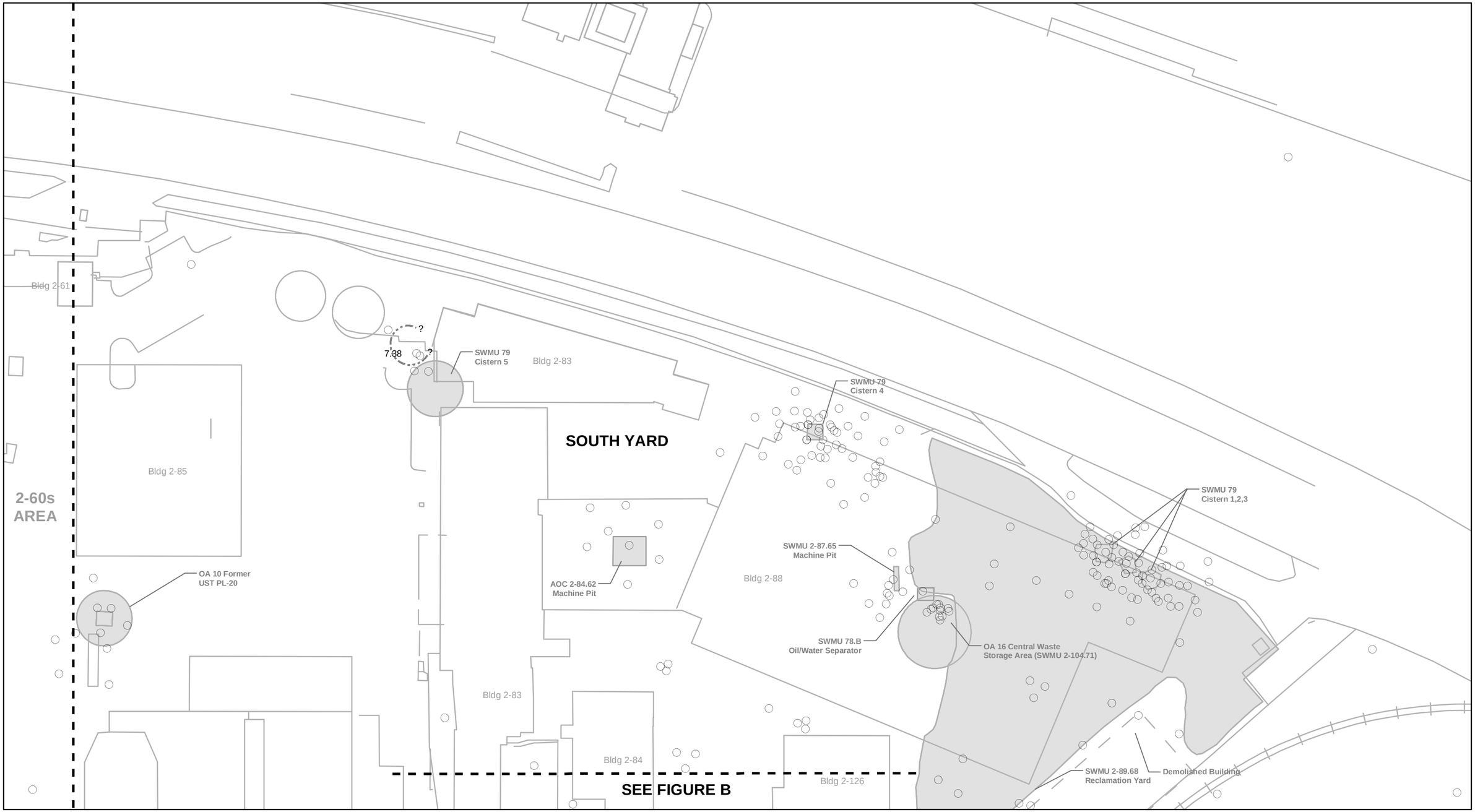
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
SELENIUM IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_SELENIUMSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.38 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

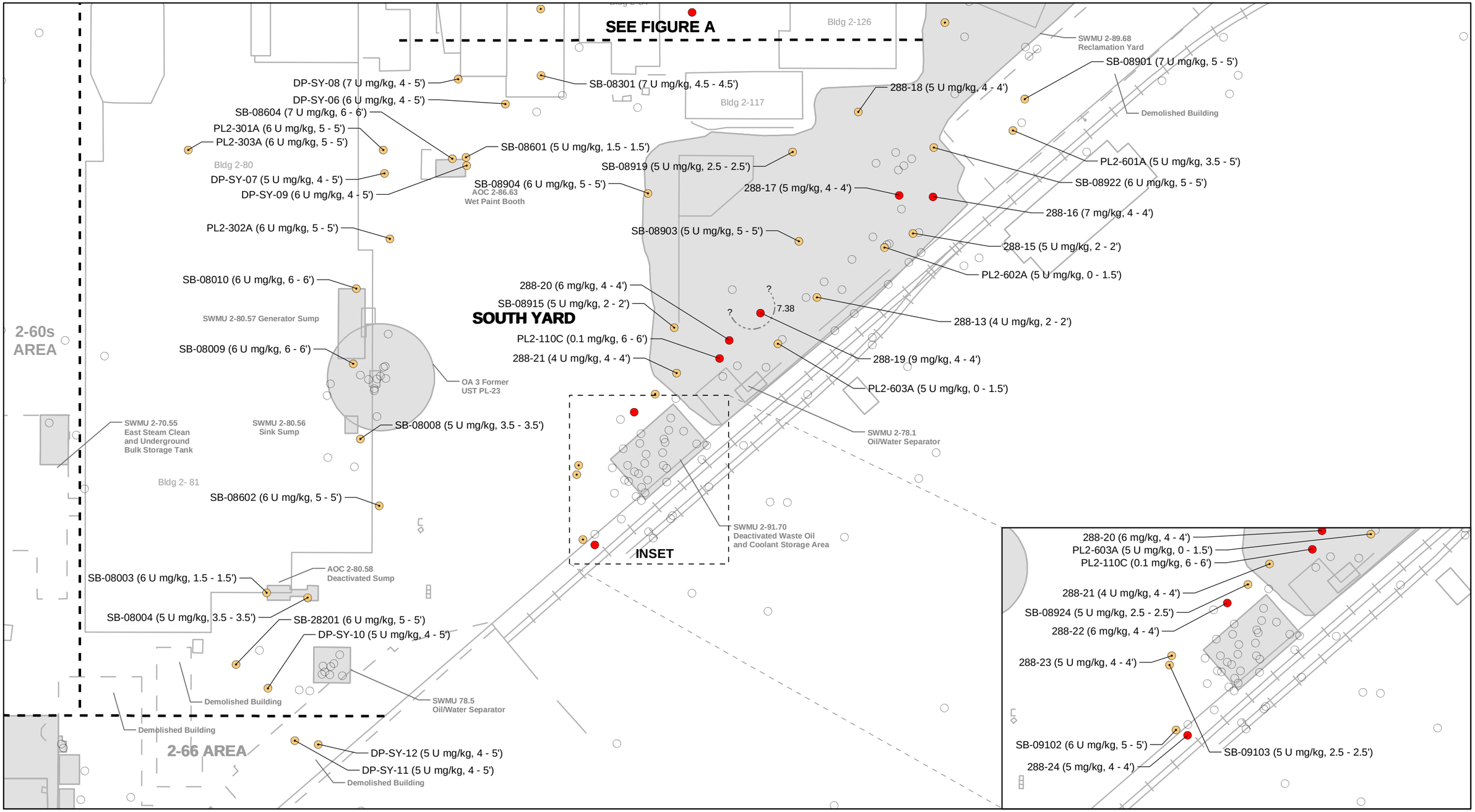
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
SELENIUM IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_SELENIUMSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.38 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

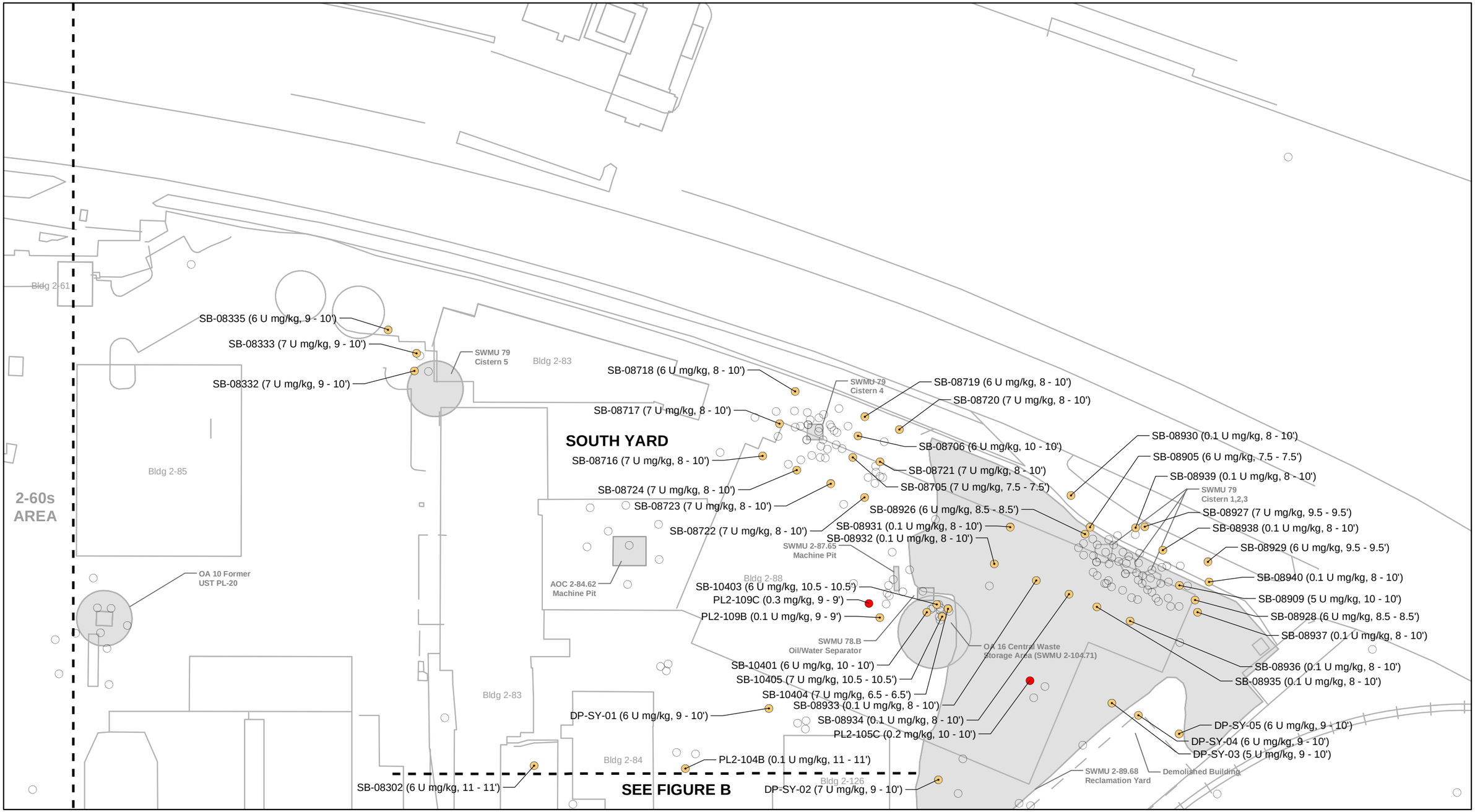
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
SELENIUM IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_SELENIUMSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.38 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
SELENIUM IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_SELENIUMSY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

DP-SY-08 (7 U mg/kg, 9 - 10')

SB-08301 (6 U mg/kg, 11.5 - 11.5')

DP-SY-06 (6 U mg/kg, 9 - 10')

Bldg 2-117

SB-08601 (7 U mg/kg, 7 - 7')

PL2-301A (6 U mg/kg, 10 - 10')

PL2-303A (6 U mg/kg, 10 - 10')

Demolished Building

SB-08901 (6 U mg/kg, 7.5 - 7.5')

PL2-601A (6 U mg/kg, 8.5 - 10')

SB-08919 (7 U mg/kg, 7.5 - 7.5')

Bldg 2-80

DP-SY-07 (6 U mg/kg, 9 - 10')

SB-08604 (7 U mg/kg, 9 - 9')

DP-SY-09 (6 U mg/kg, 9 - 10')

AOC 2-86.63
Wet Paint Booth

SB-08922 (6 U mg/kg, 10 - 10')

PL2-106C (0.1 U mg/kg, 7 - 7')

SB-08920 (6 U mg/kg, 10 - 10')

PL2-302A (6 U mg/kg, 10 - 10')

SB-08917 (7 U mg/kg, 7.5 - 7.5')

PL2-602A (6 U mg/kg, 8.5 - 10')

SB-08915 (7 mg/kg, 7.5 - 7.5')

SOUTH YARD

SWMU 2-80.57 Generator Sump

2-60s
AREA

OA 3 Former
UST PL-23

PL2-603A (5 U mg/kg, 8.5 - 10')

PL2-110C (0.3 mg/kg, 9 - 9')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

7.38

SWMU 2-78.1
Oil/Water Separator

SB-08008 (8 mg/kg, 11.5 - 11.5')

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

SB-08003 (8 mg/kg, 10 - 10')

AOC 2-80.58
Deactivated Sump

7.38

SB-08004 (6 U mg/kg, 12 - 12')

SB-08201 (7 U mg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

DP-SY-10 (6 U mg/kg, 9 - 10')

2-66 AREA

DP-SY-12 (5 U mg/kg, 9 - 10')

DP-SY-11 (6 U mg/kg, 9 - 10')

Demolished Building

PL2-603A (5 U mg/kg, 8.5 - 10')

PL2-110C (0.3 mg/kg, 9 - 9')

SB-08924 (7 U mg/kg, 7.5 - 7.5')

SB-09104 (7 U mg/kg, 7.5 - 7.5')

SB-09103 (7 mg/kg, 7.5 - 7.5')

SB-09102 (6 U mg/kg, 7.5 - 7.5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 7.38 mg/kg
Proposed Media Cleanup Level (PMCL) = 7.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

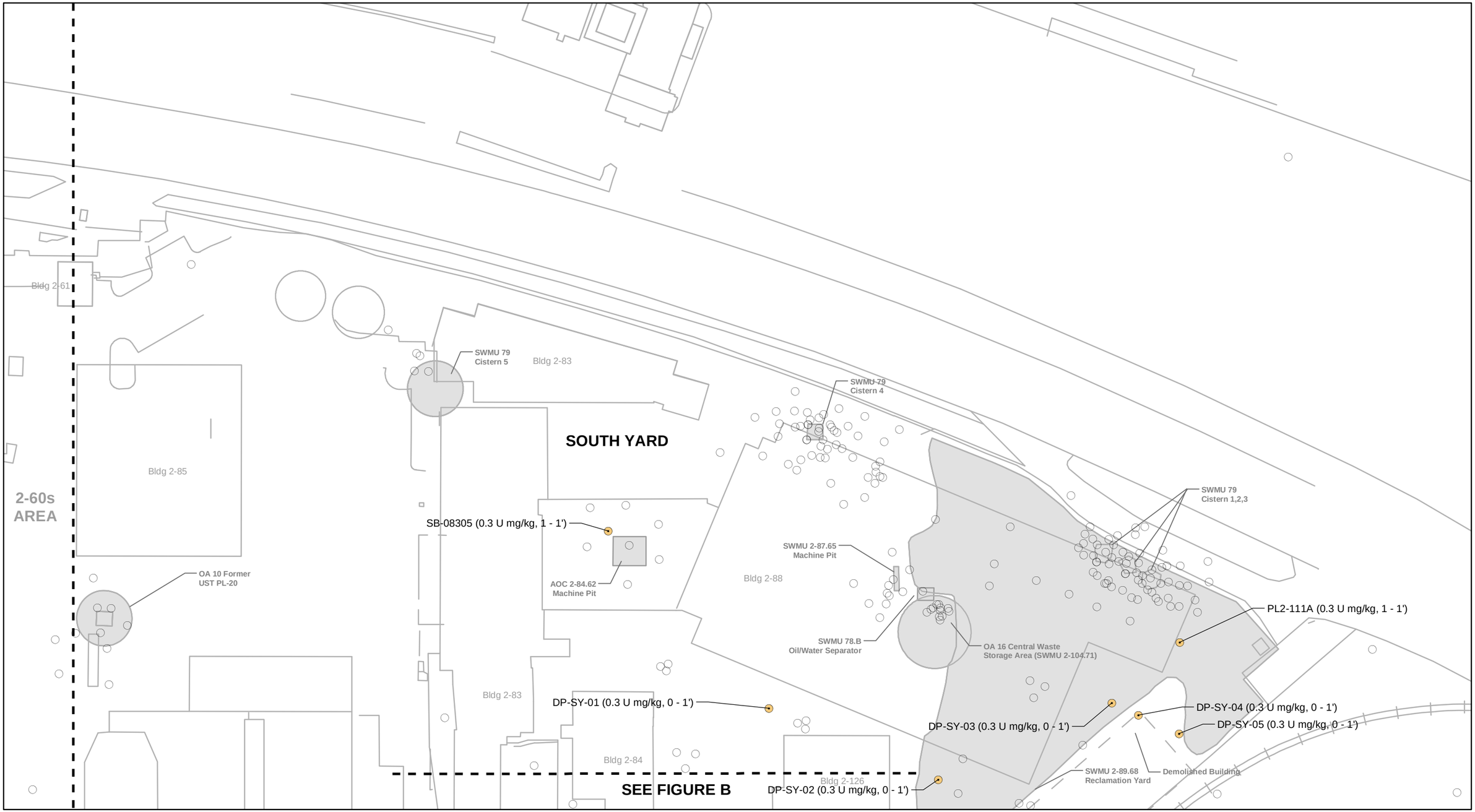
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
SELENIUM IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_SELENIUMSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.323 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

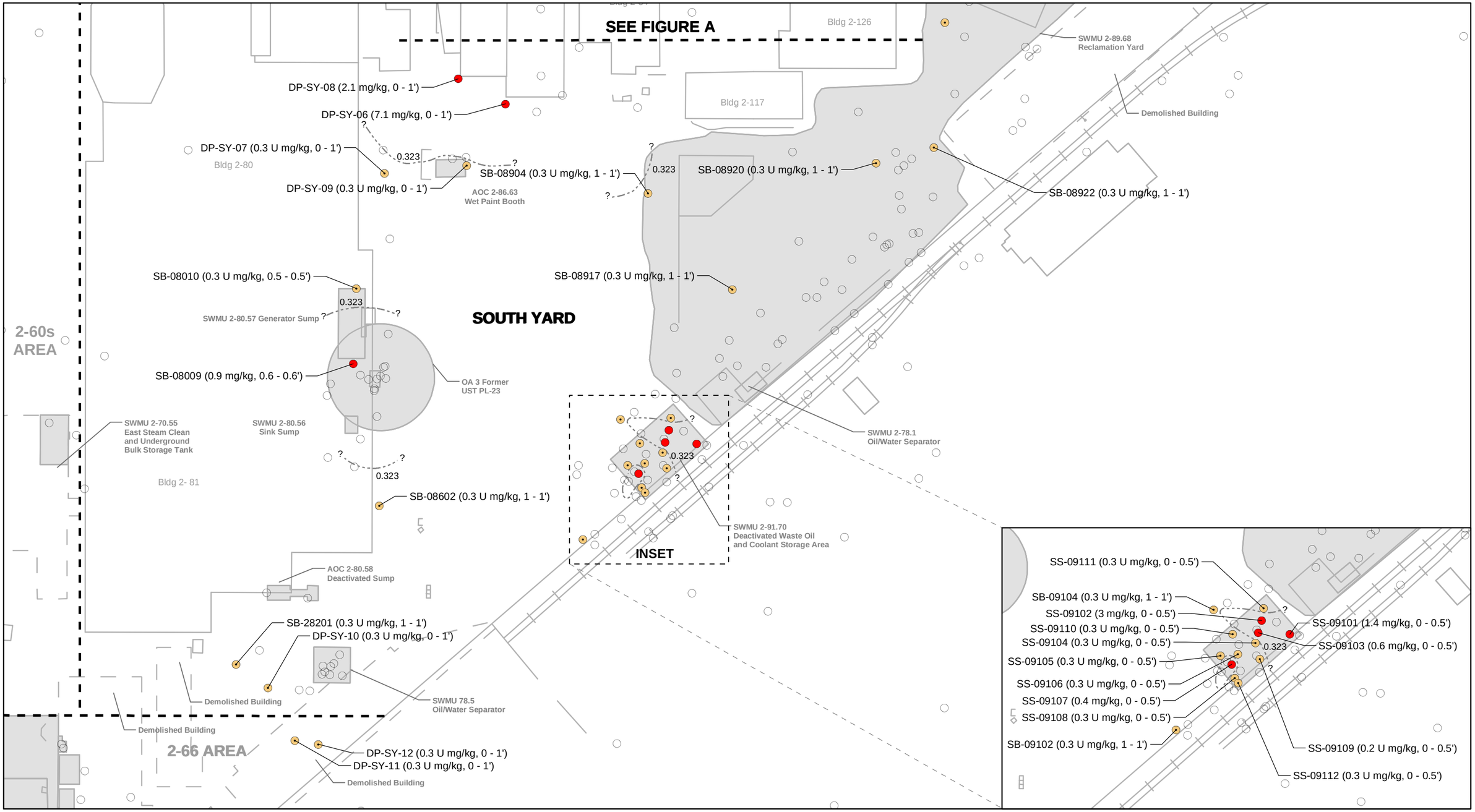
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
SILVER IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

BoeingTemplate_A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.323 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

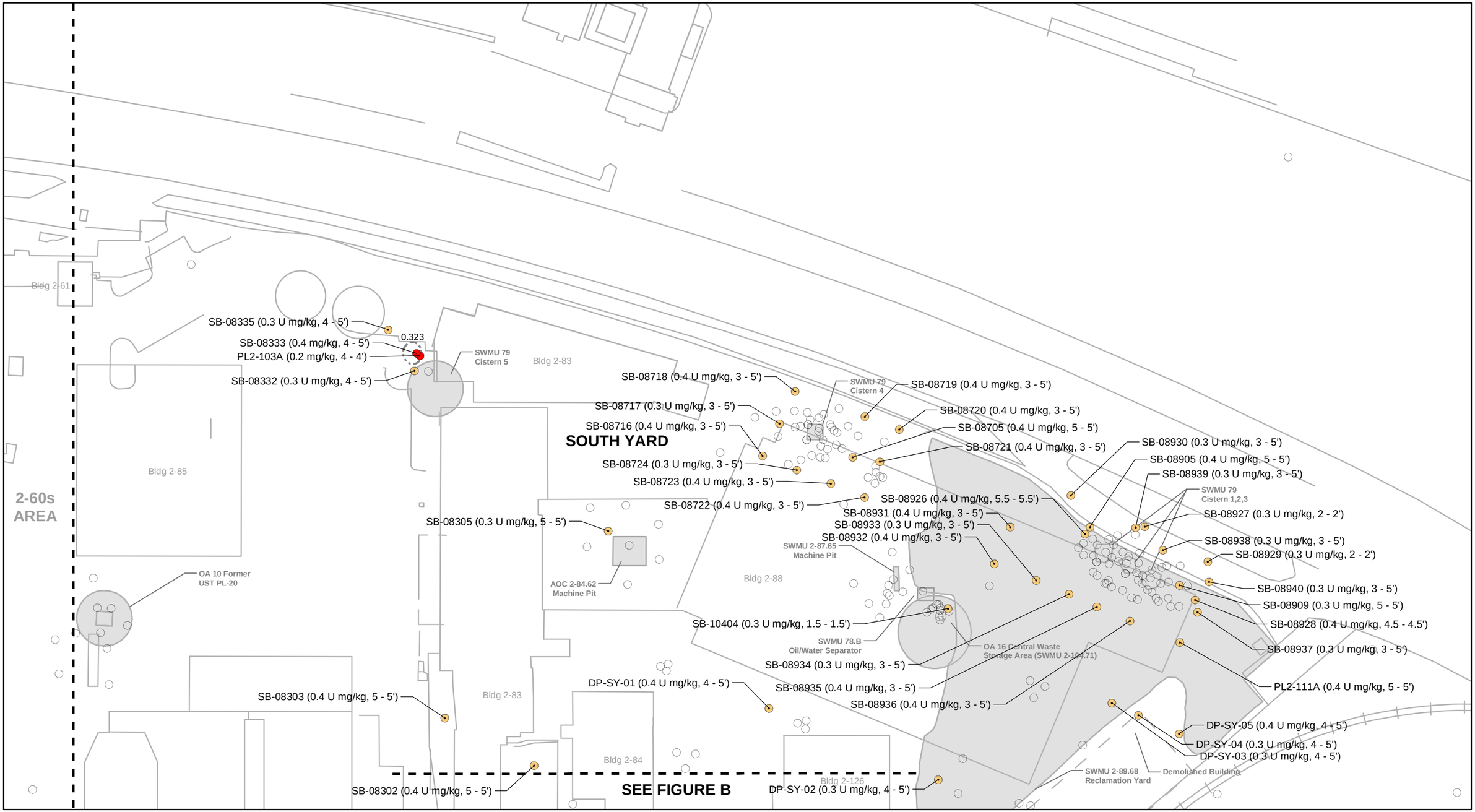
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
SILVER IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

BoeingTemplate_B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.323 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

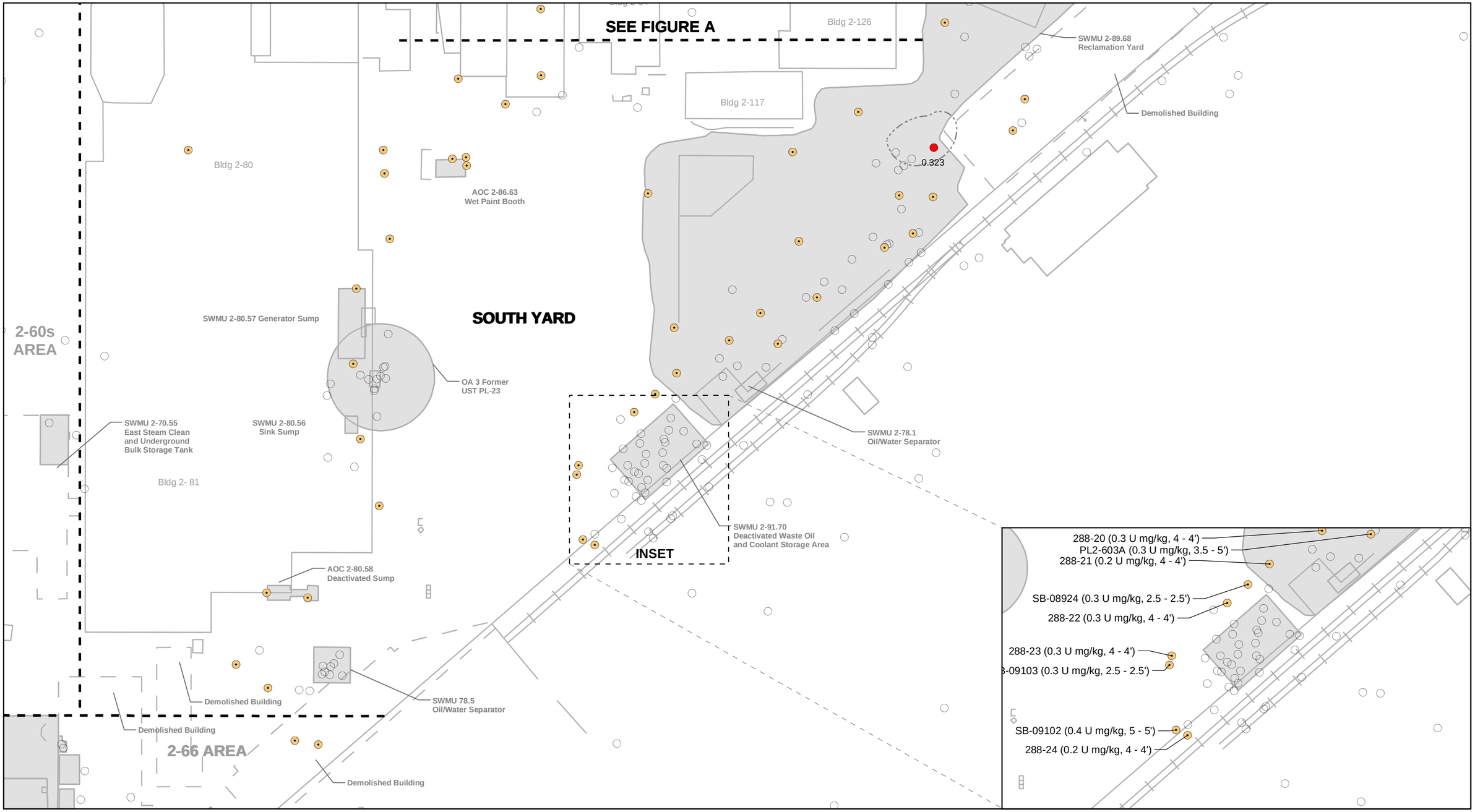
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
SILVER IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

BoeingTemplate_A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.323 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

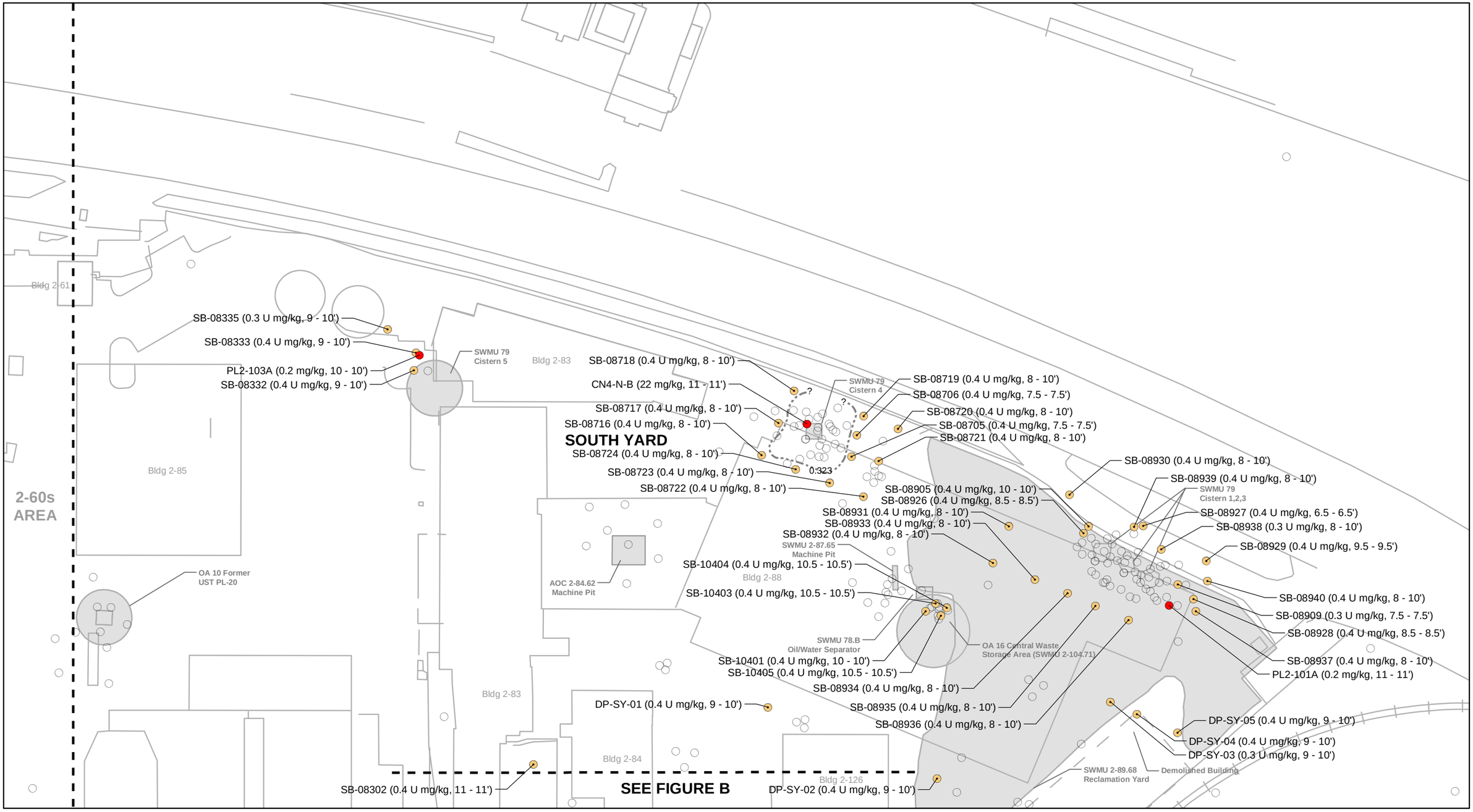
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
SILVER IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

BoeingTemplate_B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.323 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
SILVER IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

BoeingTemplate_A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-117

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-603A (0.3 U mg/kg, 8.5 - 10')

SB-08924 (0.4 U mg/kg, 7.5 - 7.5')

SB-09104 (0.4 U mg/kg, 7.5 - 7.5')

-09103 (0.4 U mg/kg, 7.5 - 7.5')

B-09102 (0.4 U mg/kg, 7.5 - 7.5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.323 mg/kg
Proposed Media Cleanup Level (PMCL) = 0.3 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

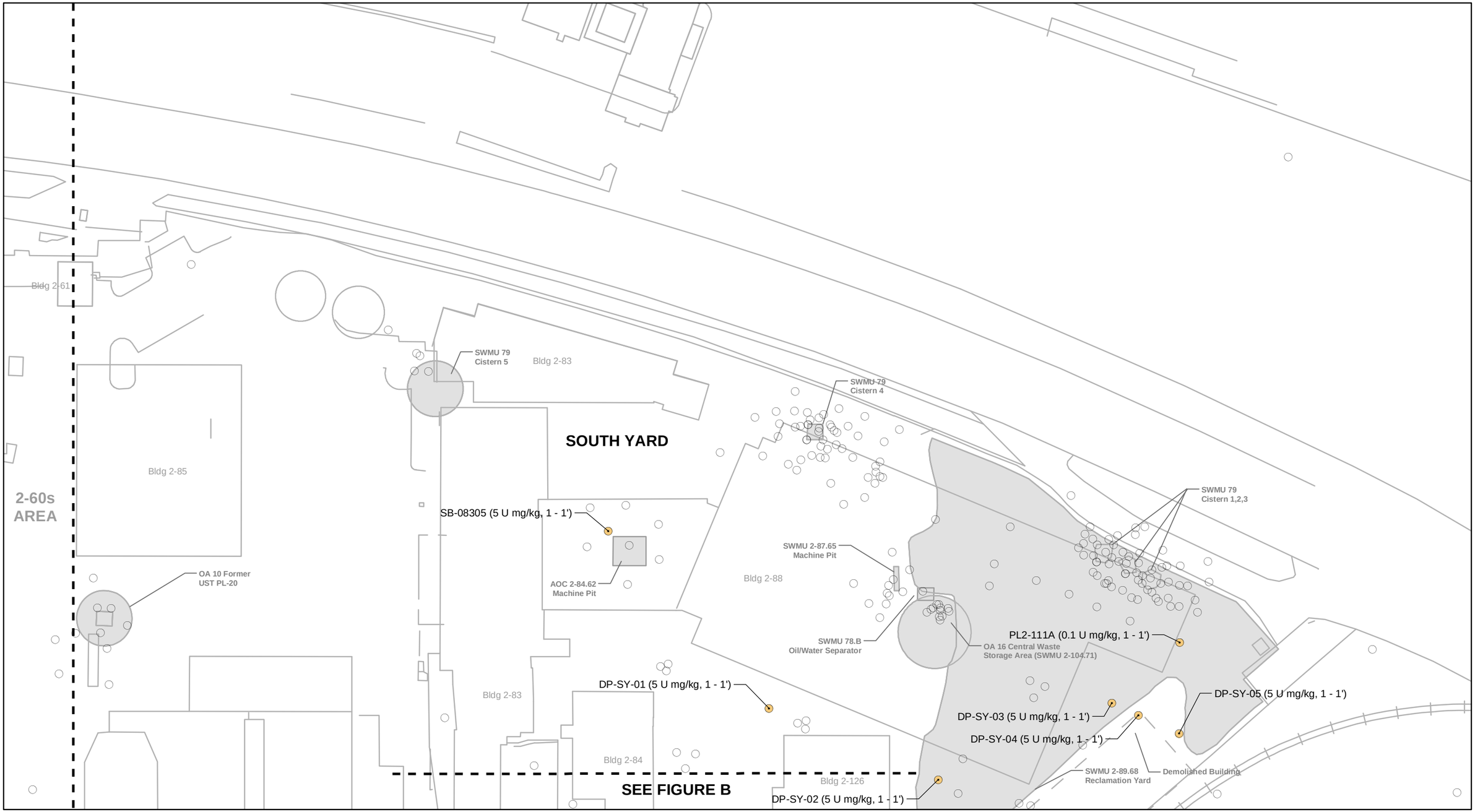
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
SILVER IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

BoeingTemplate_B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.67 mg/kg
Proposed Media Cleanup Level (PMCL) = 8.9 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

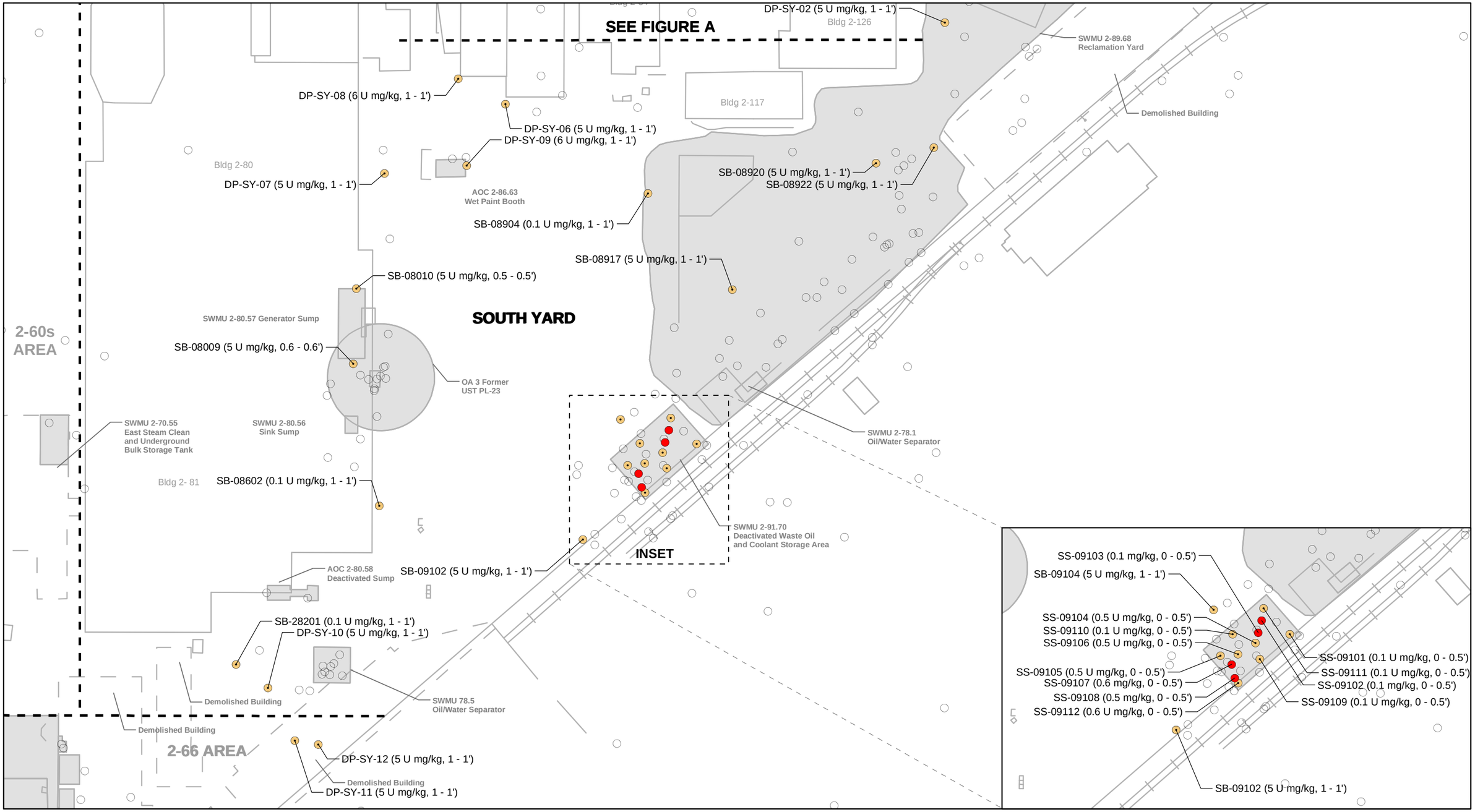
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
THALLIUM IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_THALLIUMSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.67 mg/kg
Proposed Media Cleanup Level (PMCL) = 8.9 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

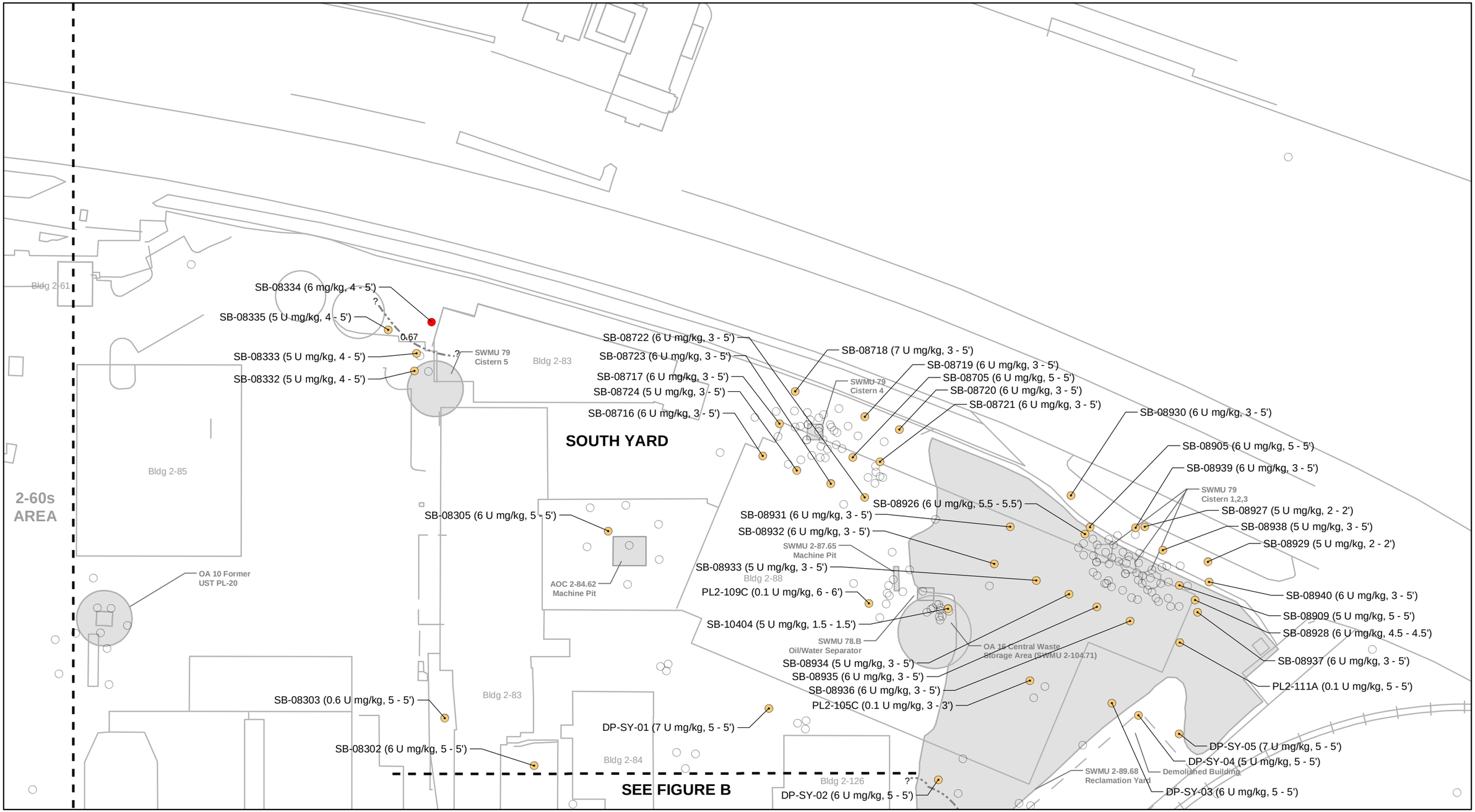
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
THALLIUM IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_THALLIUMSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.67 mg/kg
Proposed Media Cleanup Level (PMCL) = 8.9 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

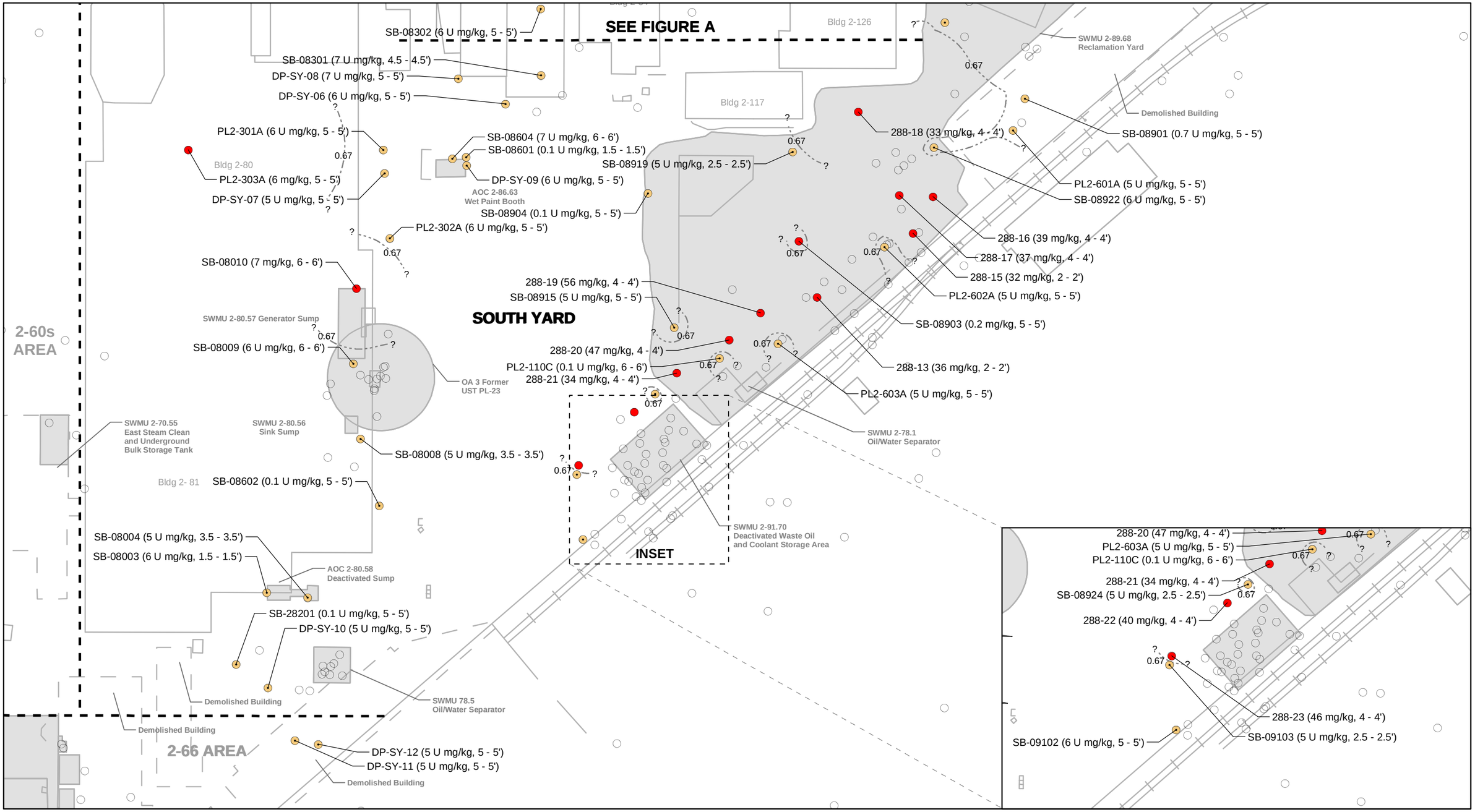
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
THALLIUM IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_THALLIUMSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.67 mg/kg
Proposed Media Cleanup Level (PMCL) = 8.9 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

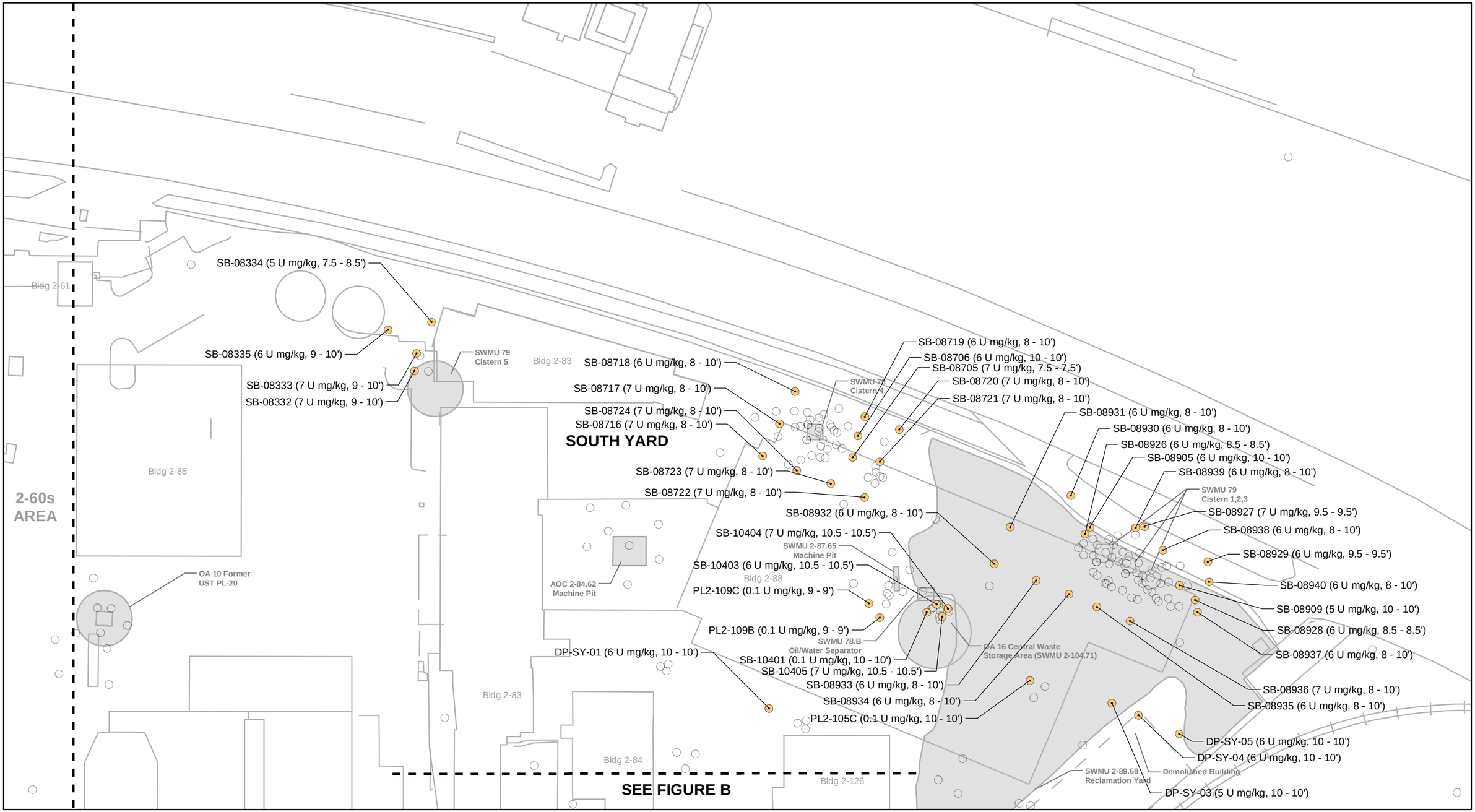
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
THALLIUM IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_THALLIUMSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.67 mg/kg
Proposed Media Cleanup Level (PMCL) = 8.9 mg/kg (Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

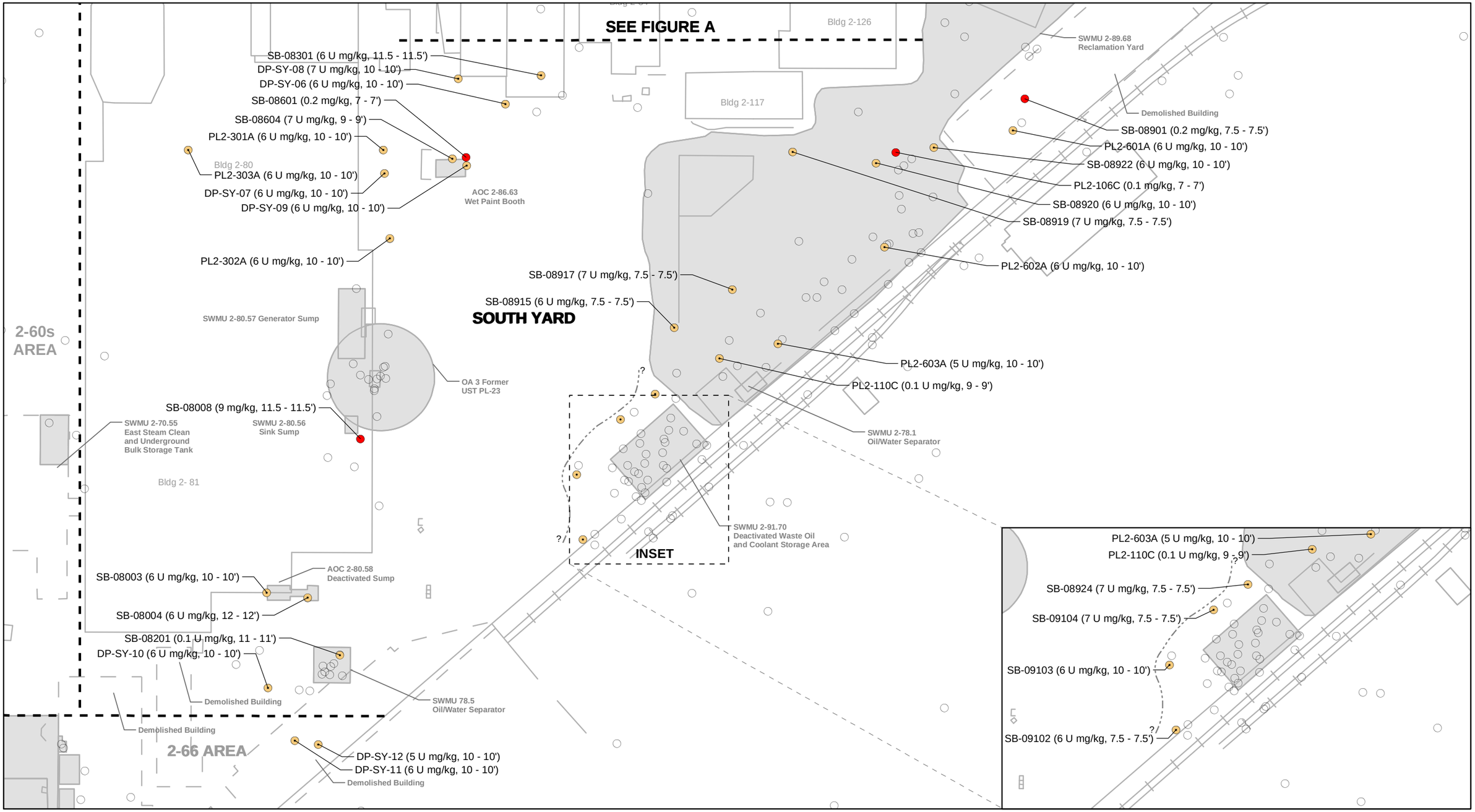
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
THALLIUM IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_THALLIUMSY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 0.67 mg/kg
Proposed Media Cleanup Level (PMCL) = 8.9 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

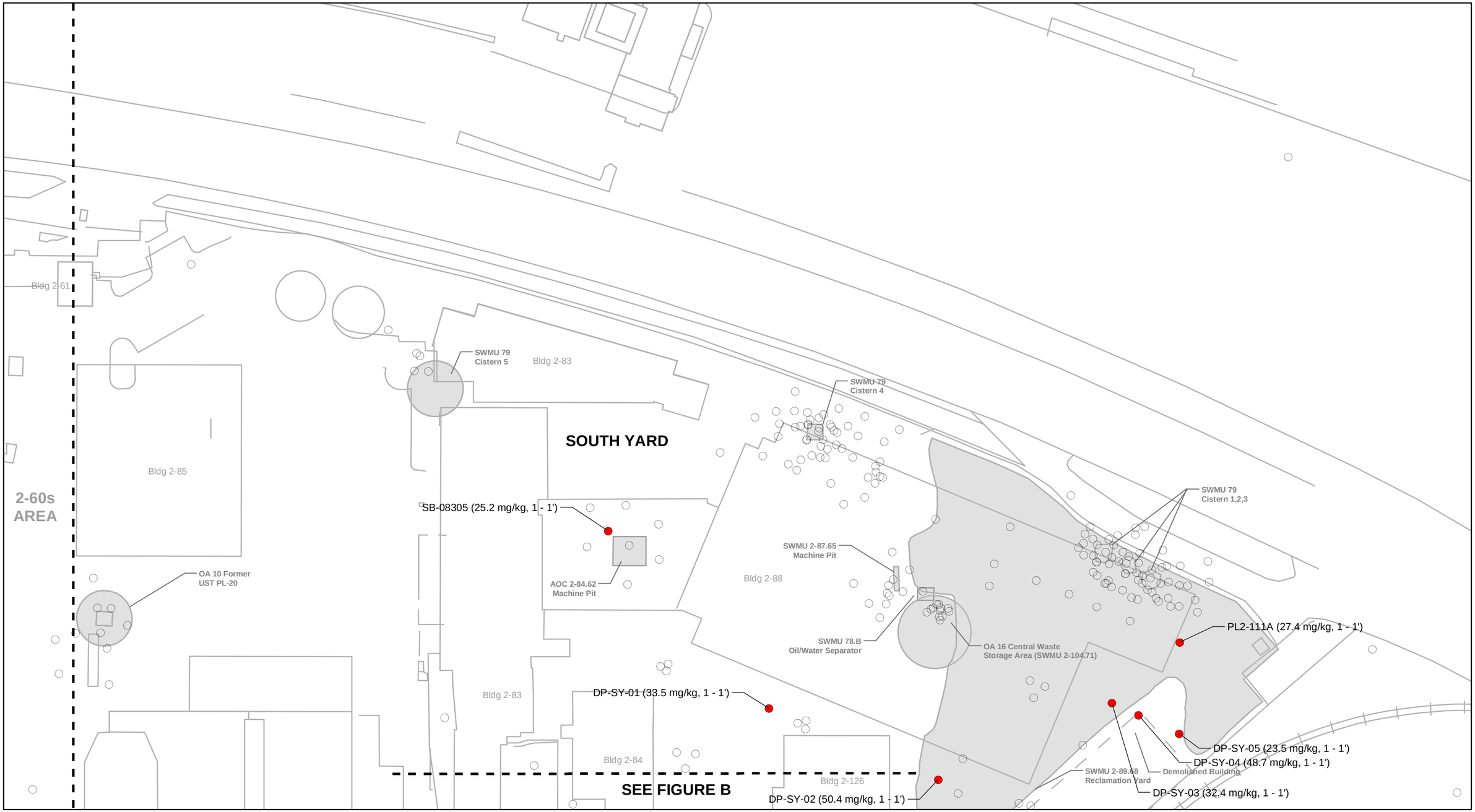
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
THALLIUM IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_THALLIUMSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 101 mg/kg
Proposed Media Cleanup Level (PMCL) = 107 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

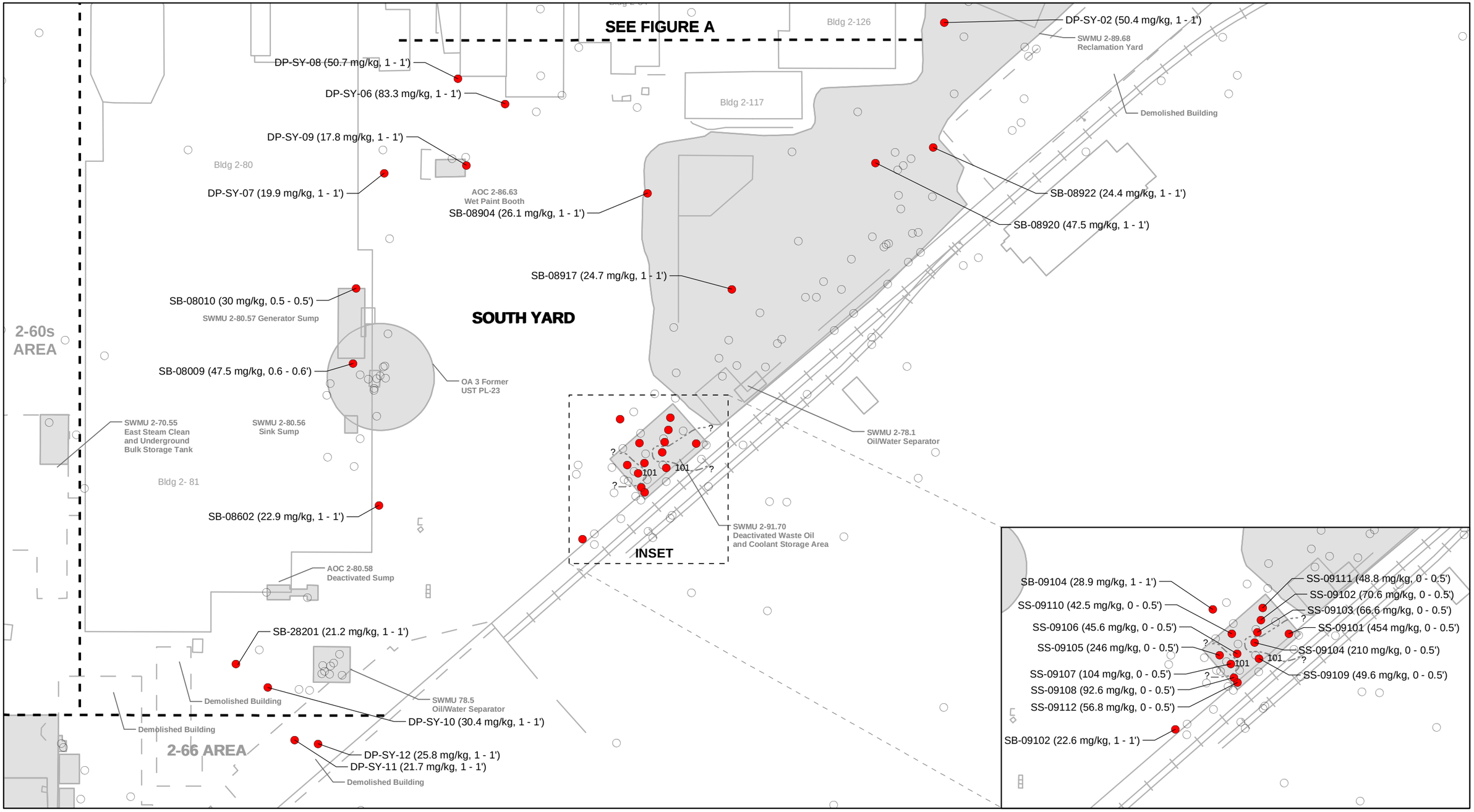
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ZINC IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_ZINCSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 101 mg/kg
Proposed Media Cleanup Level (PMCL) = 107 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

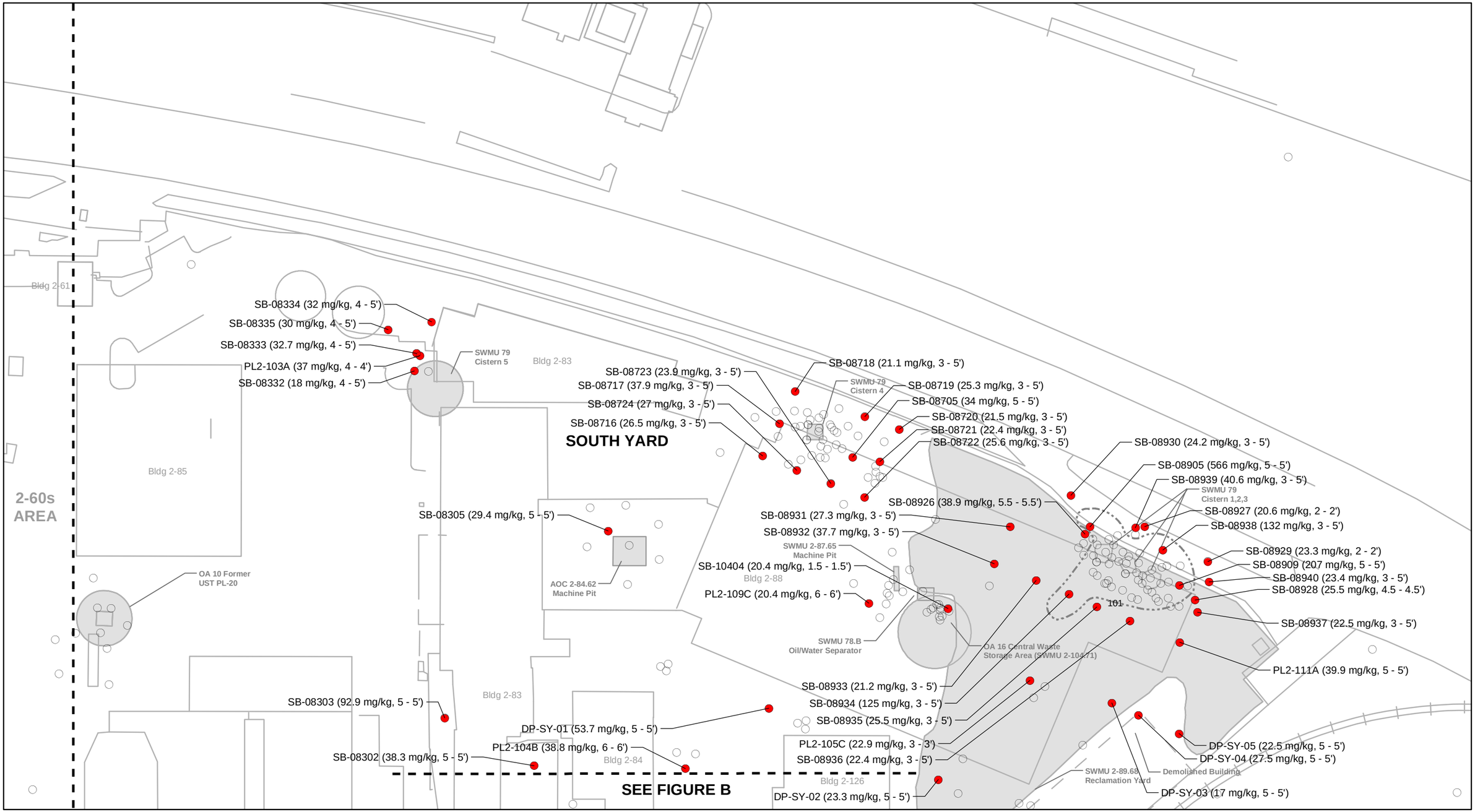
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ZINC IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_ZINCSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 101 mg/kg
Proposed Media Cleanup Level (PMCL) = 107 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

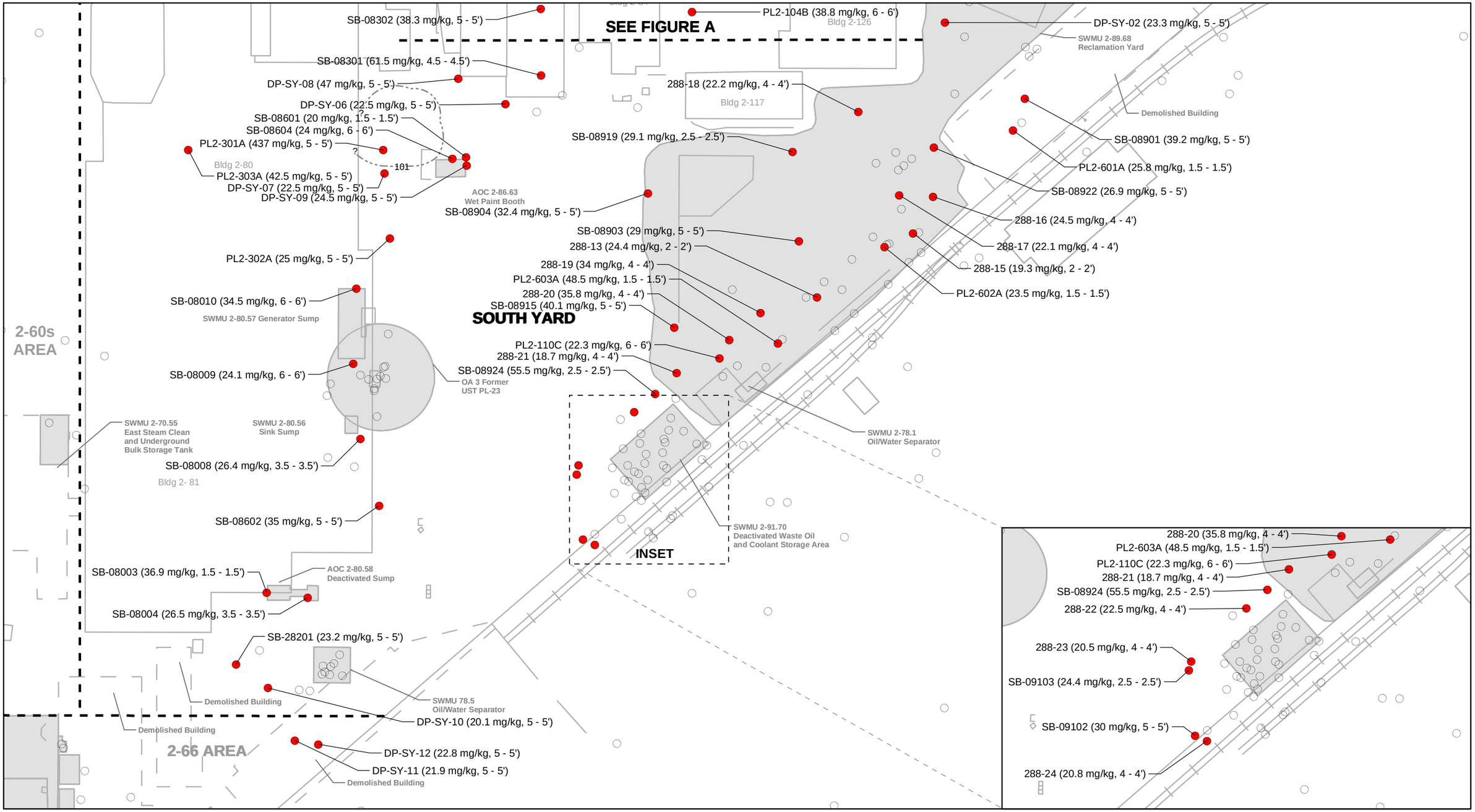
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ZINC IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_ZINCSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 101 mg/kg
Proposed Media Cleanup Level (PMCL) = 107 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

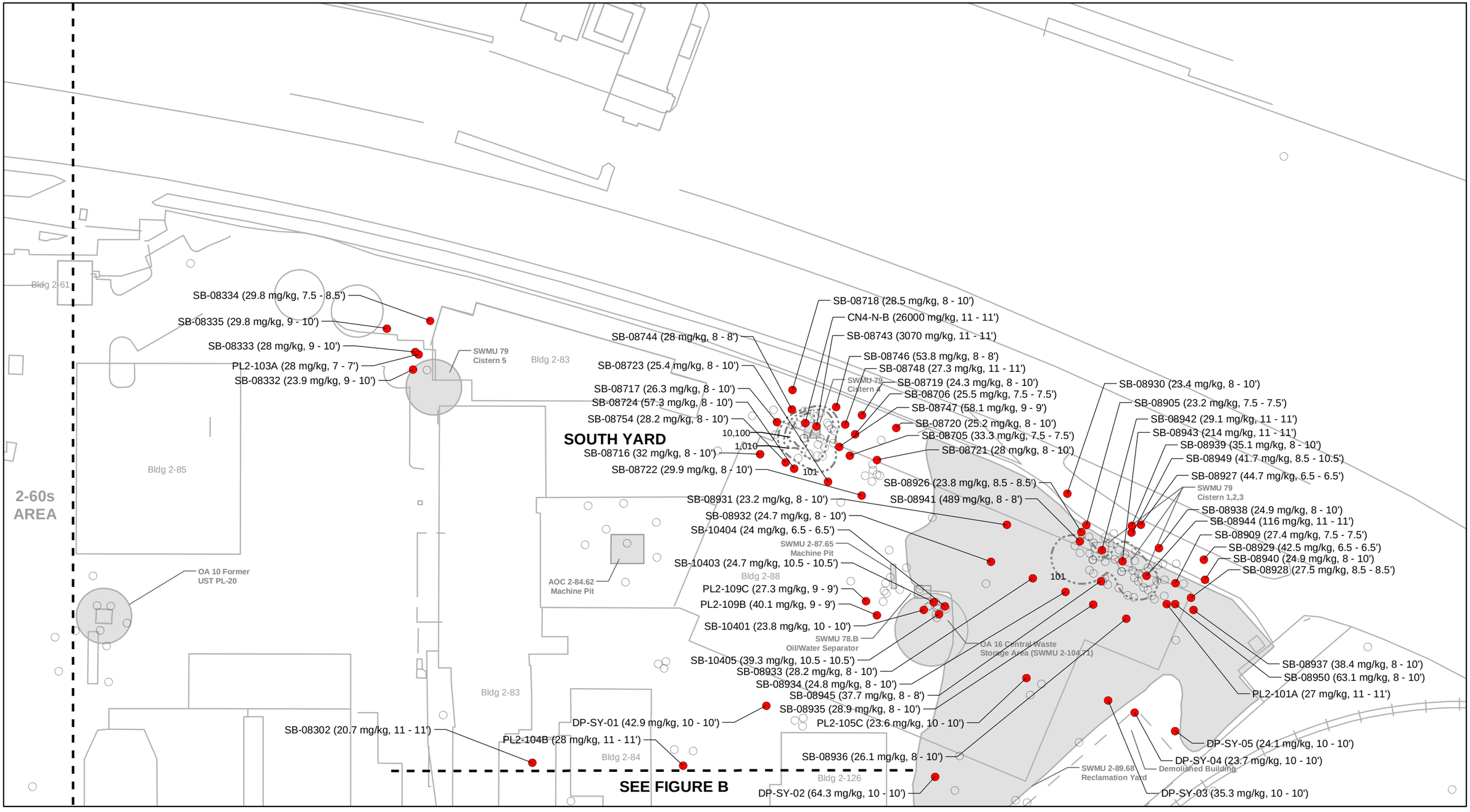
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ZINC IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_ZINCSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 101 mg/kg
Proposed Media Cleanup Level (PMCL) = 107 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

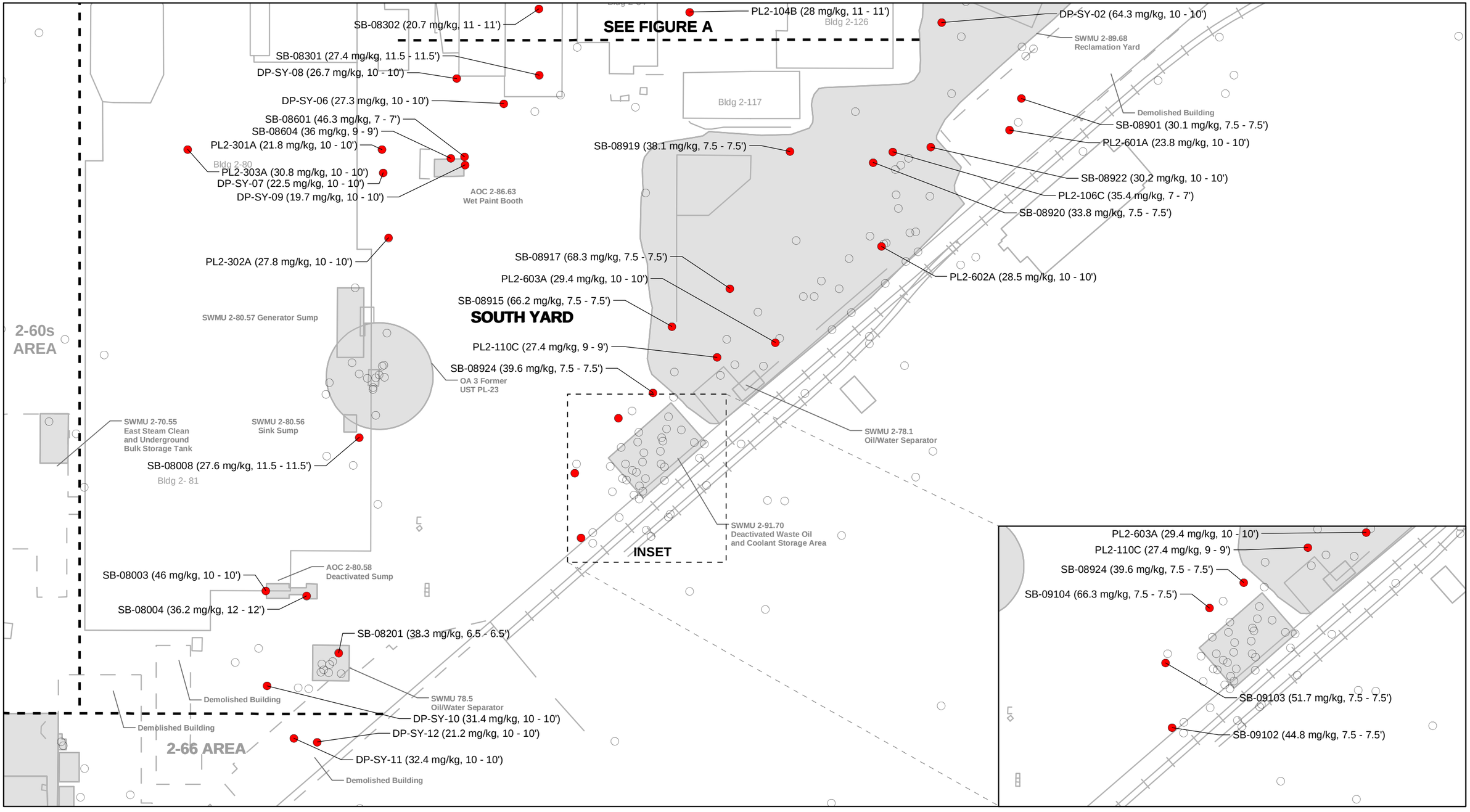
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ZINC IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_ZINCSY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 101 mg/kg
Proposed Media Cleanup Level (PMCL) = 107 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

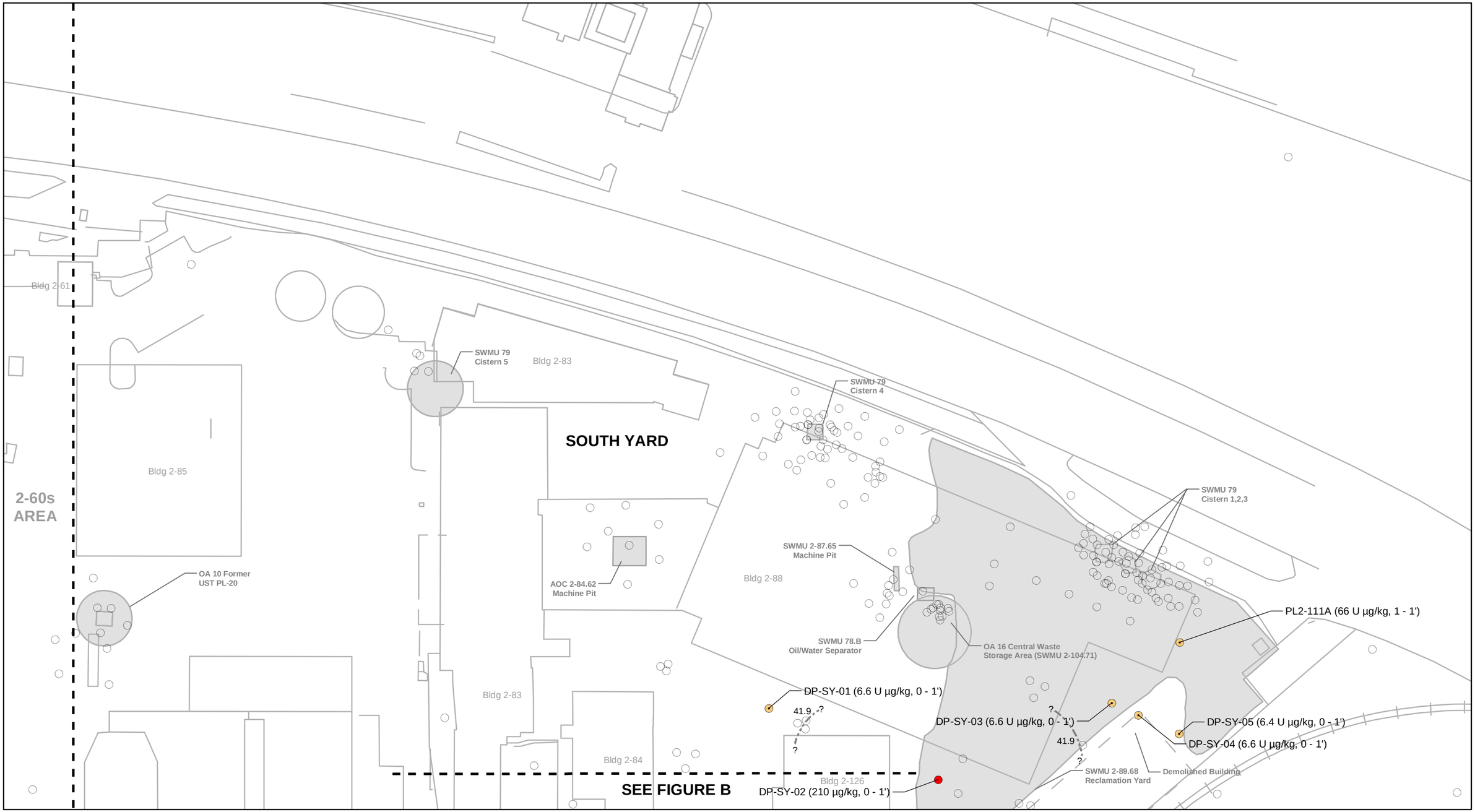
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ZINC IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_ZINCSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 41.9 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

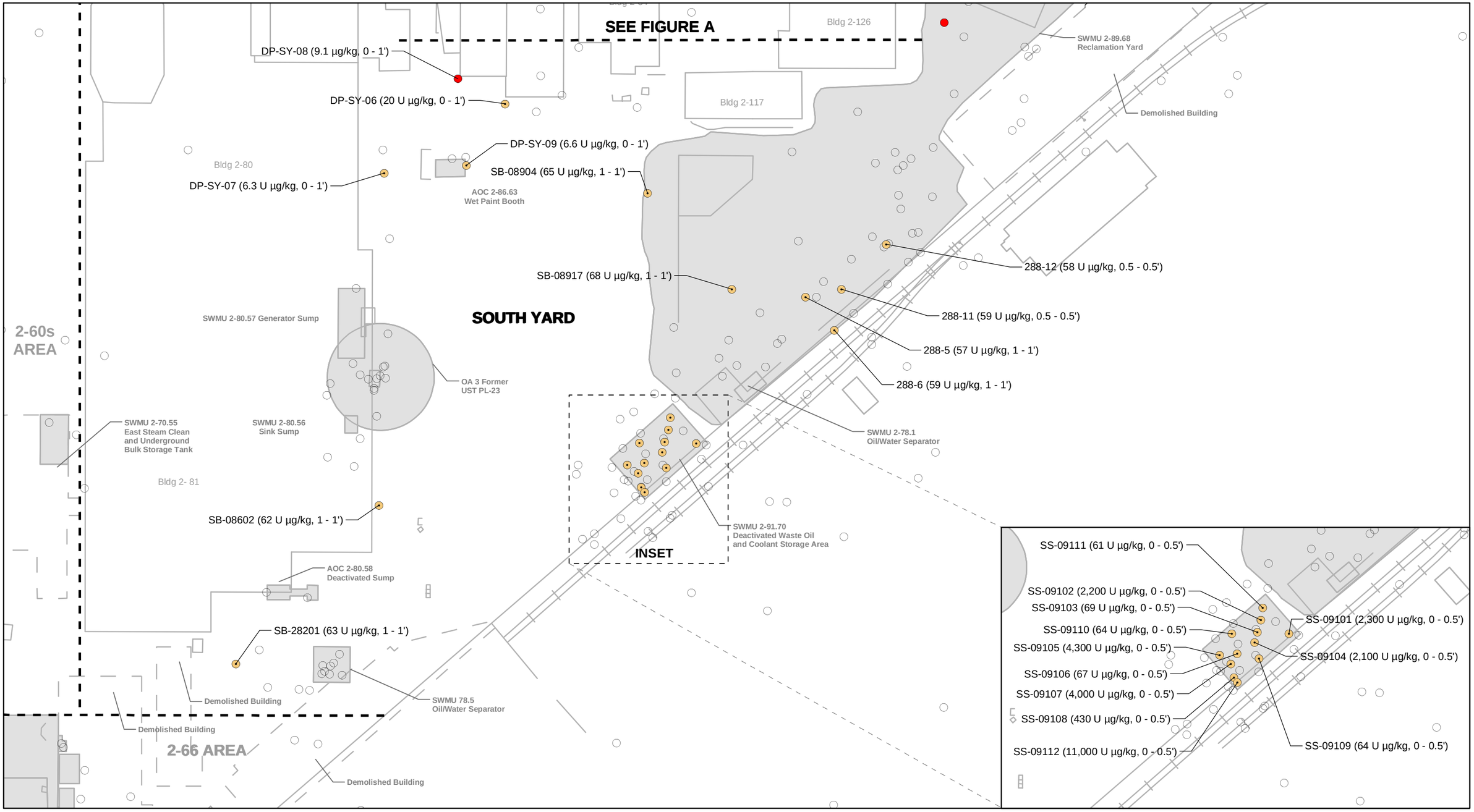
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(A)ANTHRACENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_BENZO_AANTHRACENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 41.9 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

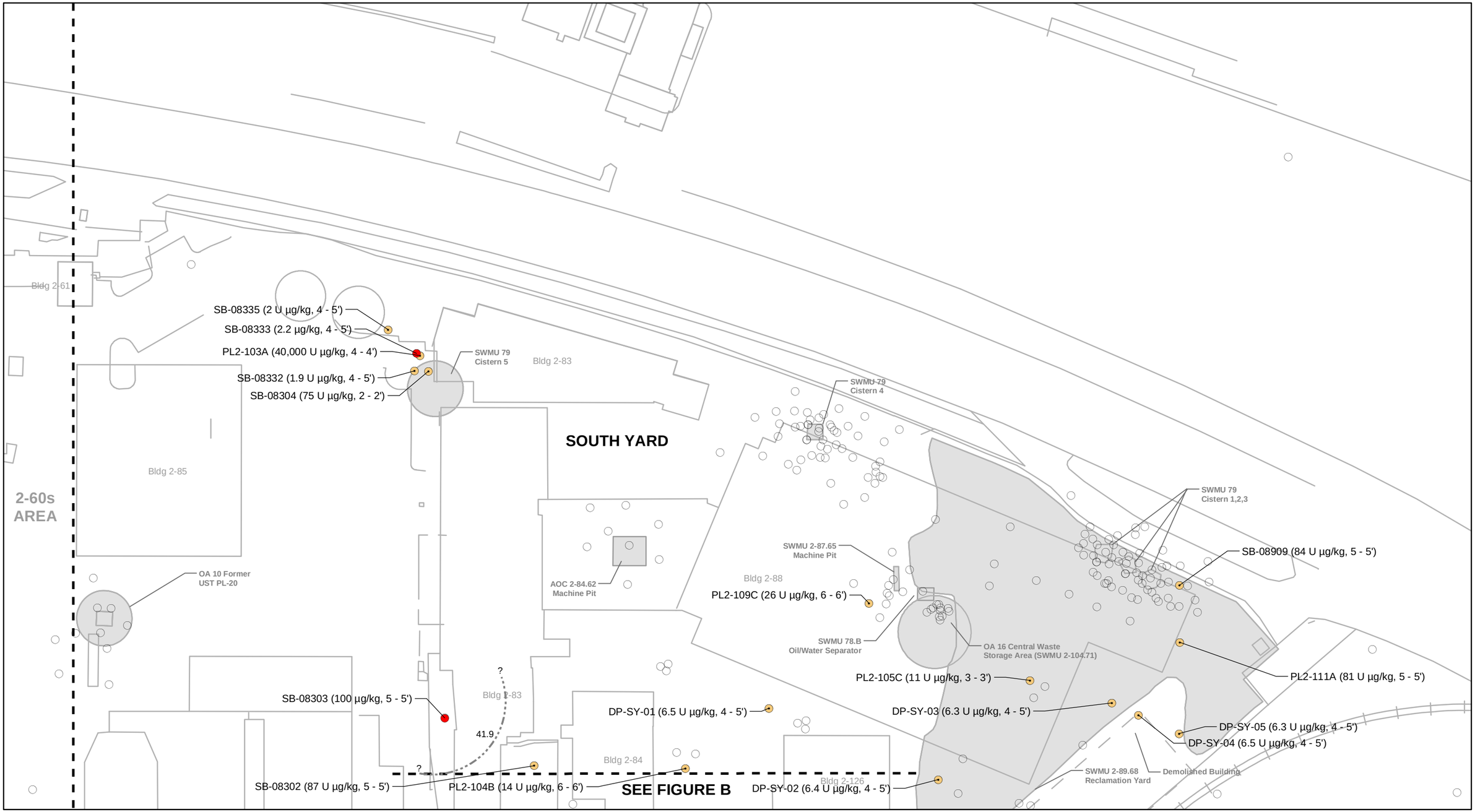
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(A)ANTHRACENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_BENZO_AANTHRACENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 41.9 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

BENZO(A)ANTHRACENE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_BENZO_AANTHRACENESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08301 (94 U µg/kg, 4.5 - 4.5')

DP-SY-08 (7.3 µg/kg, 4 - 5')

DP-SY-06 (6.6 U µg/kg, 4 - 5')

Bldg 2-117

SB-08601 (29 U µg/kg, 1.5 - 1.5')

SB-08604 (88 U µg/kg, 6 - 6')

Bldg 2-80

DP-SY-07 (6.3 U µg/kg, 4 - 5')

DP-SY-09 (6.6 U µg/kg, 4 - 5')

AOC 2-86.63
Wet Paint Booth

SB-08904 (68 U µg/kg, 5 - 5')

SB-08903 (61 U µg/kg, 5 - 5')

SB-08901 (81 U µg/kg, 5 - 5')

288-19 (72 µg/kg, 4 - 4')

288-20 (58 U µg/kg, 4 - 4')

SB-08915 (75 U µg/kg, 2 - 2')

SOUTH YARD

PL2-110C (22 U µg/kg, 6 - 6')

41.9

PL2-602A (6.6 U µg/kg, 3.5 - 5')

288-4 (59 U µg/kg, 3 - 3')

288-5 (60 U µg/kg, 3 - 3')

288-6 (61 U µg/kg, 3 - 3')

PL2-603A (78 µg/kg, 3.5 - 5')

SWMU 2-78.1
Oil/Water Separator

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

288-20 (58 U µg/kg, 4 - 4')

PL2-110C (22 U µg/kg, 6 - 6')

PL2-603A (78 µg/kg, 3.5 - 5')

SB291-9 (69 U µg/kg, 5 - 5')

SB291-3 (340 U µg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 41.9 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

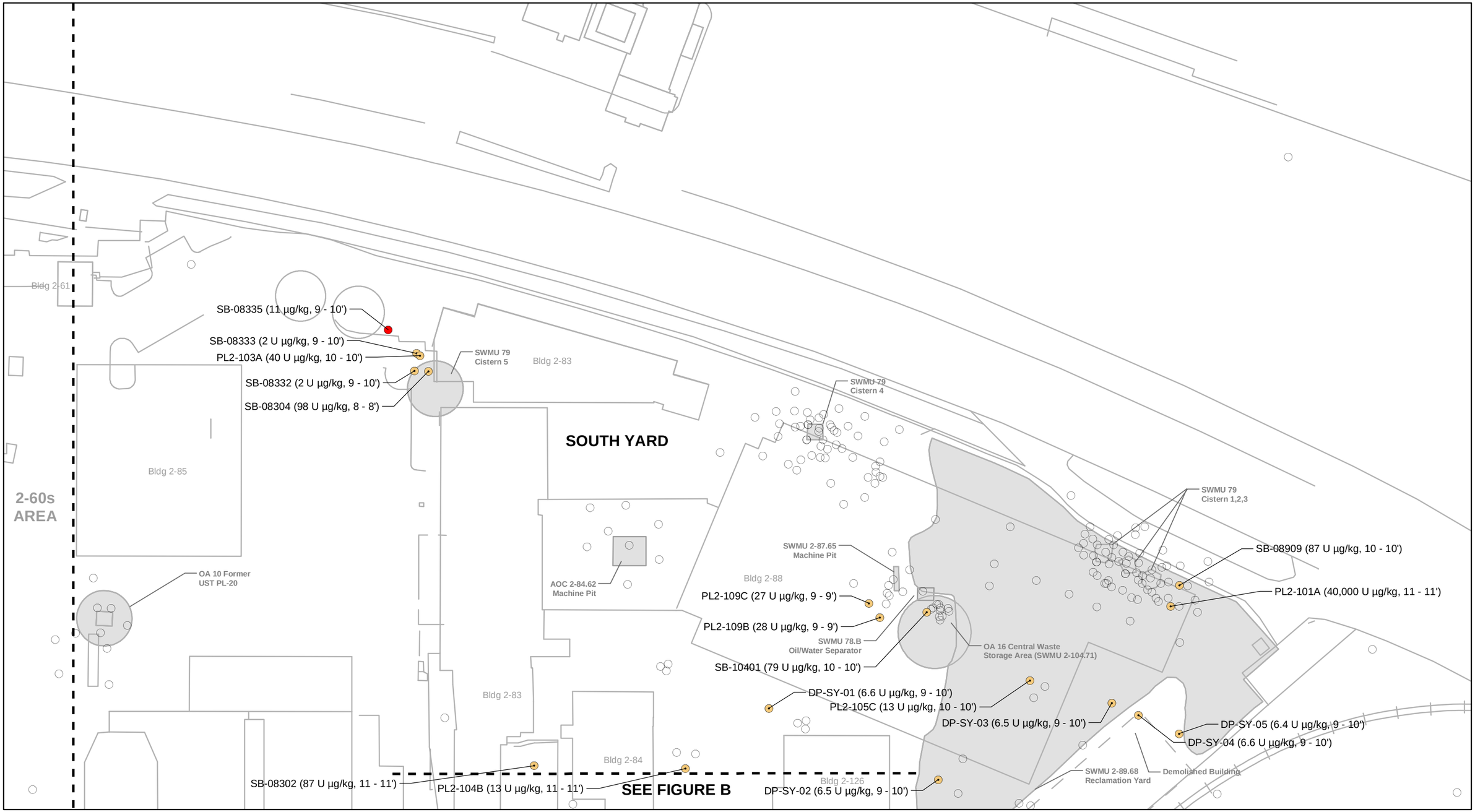
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(A)ANTHRACENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_BENZO_AANTHRACENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 41.9 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(A)ANTHRACENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_BENZO_AANTHRACENESY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (87 U µg/kg, 11.5 - 11.5')

DP-SY-08 (6.4 U µg/kg, 9 - 10')

DP-SY-06 (6.5 U µg/kg, 9 - 10')

Bldg 2-117

Demolished Building

SB-08901 (80 U µg/kg, 7.5 - 7.5')

SB-08601 (35 U µg/kg, 7 - 7')

SB-08604 (89 U µg/kg, 9 - 9')

DP-SY-07 (6.4 U µg/kg, 9 - 10')

Bldg 2-80

PL2-106C (14 U µg/kg, 7 - 7')

DP-SY-09 (6.5 U µg/kg, 9 - 10')

AOC 2-86.63
Wet Paint Booth

SB-08917 (88 U µg/kg, 7.5 - 7.5')

PL2-602A (6.4 U µg/kg, 8.5 - 10')

SB-08915 (92 U µg/kg, 7.5 - 7.5')

SOUTH YARD

SWMU 2-80.57 Generator Sump

2-60s
AREA

PL2-110C (13 U µg/kg, 9 - 9')

OA 3 Former
UST PL-23

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (79 U µg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-110C (13 U µg/kg, 9 - 9')

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SB291-6 (66 U µg/kg, 2.5 - 7.5')

SB291-3 (70 U µg/kg, 9.5 - 9.5')

PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 41.9 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

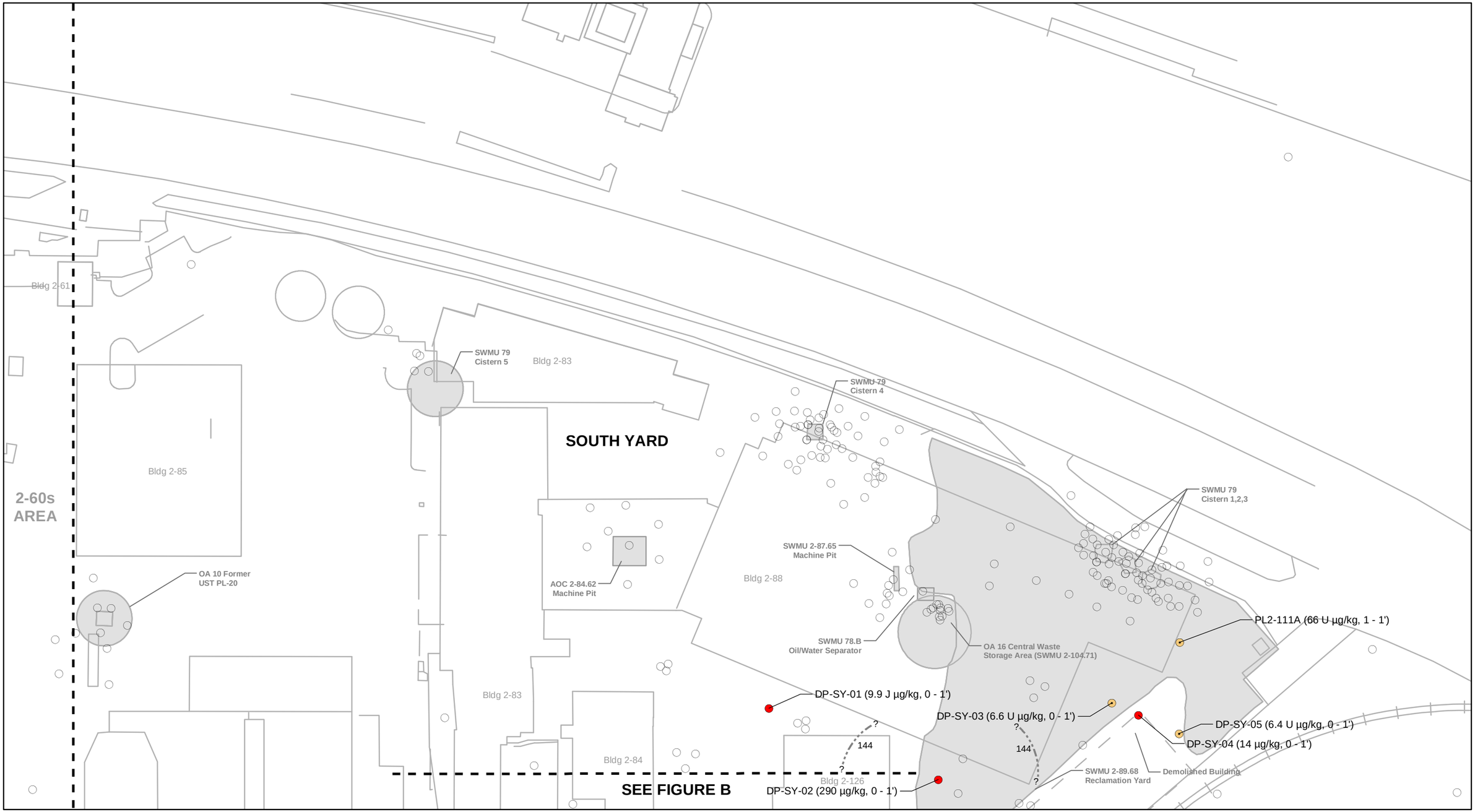
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(A)ANTHRACENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_BENZO_AANTHRACENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

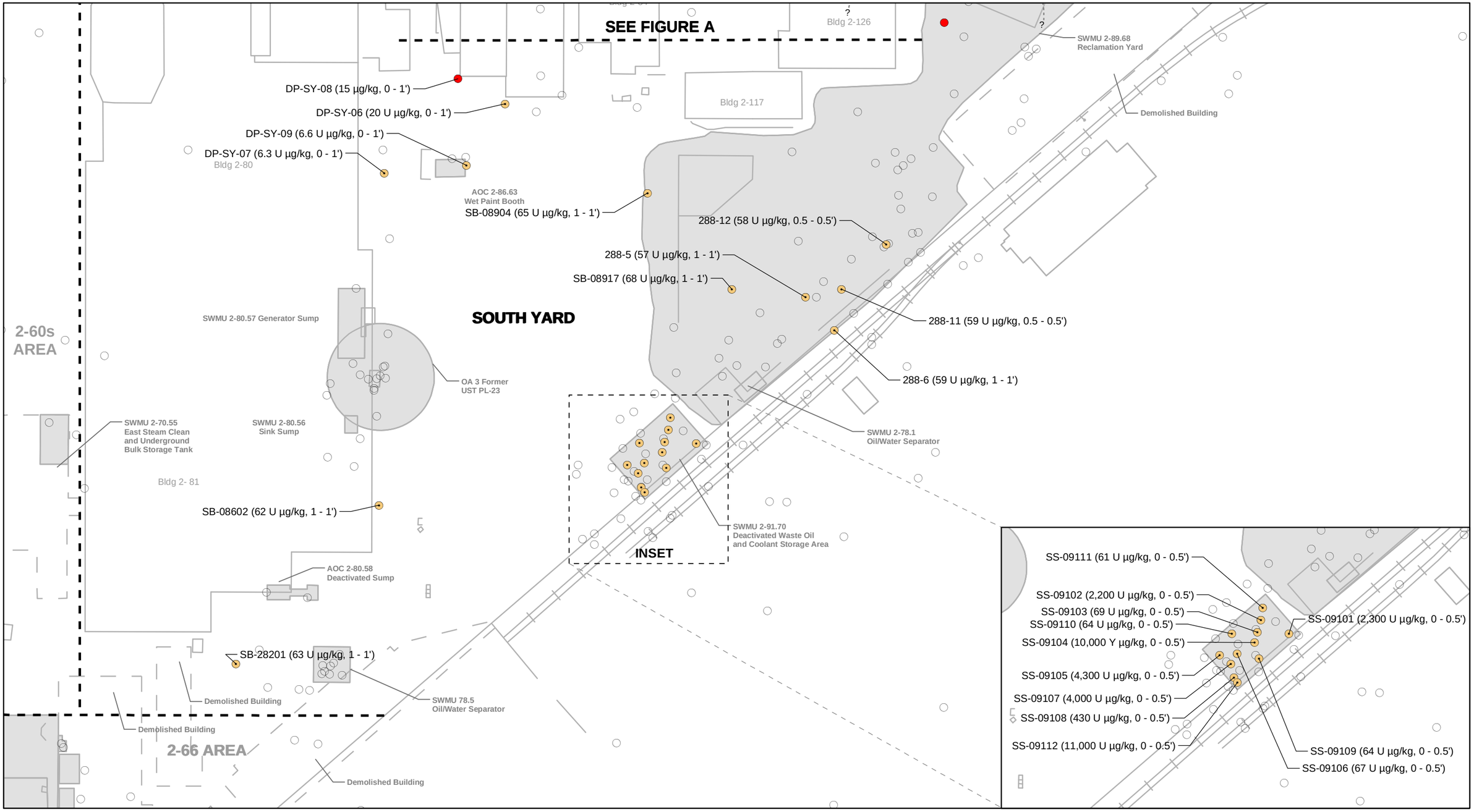
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(B)FLUORANTHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_BENZO_BFLUORANTHENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

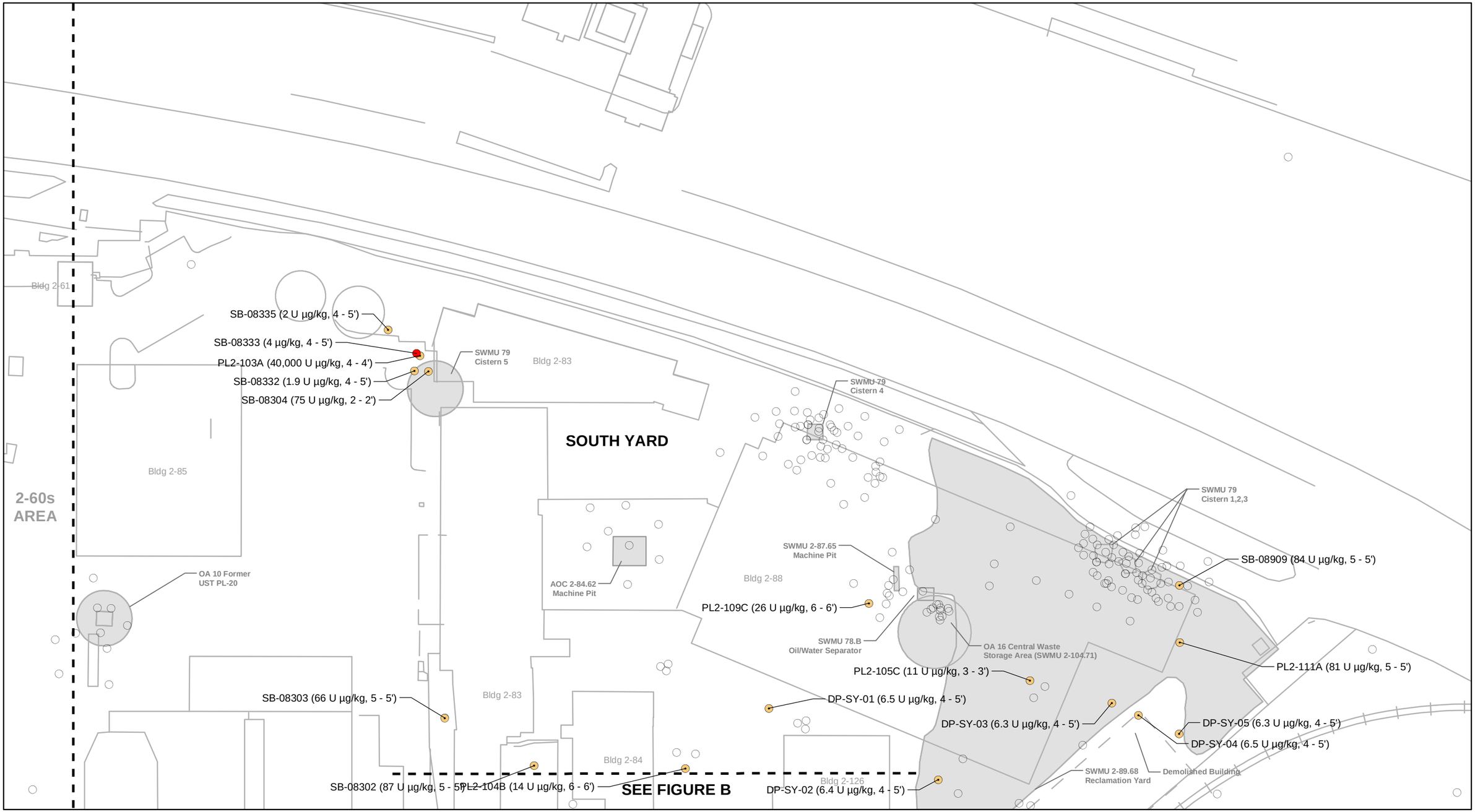
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(B)FLUORANTHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_BENZO_BFLUORANTHENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(B)FLUORANTHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_BENZO_BFLUORANTHENESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (94 U µg/kg, 4.5 - 4.5')

DP-SY-08 (7.9 µg/kg, 4 - 5')

DP-SY-06 (6.6 U µg/kg, 4 - 5')

Bldg 2-117

SB-08901 (81 U µg/kg, 5 - 5')

Demolished Building

SB-08601 (29 U µg/kg, 1.5 - 1.5')

SB-08604 (88 U µg/kg, 6 - 6')

DP-SY-07 (6.3 U µg/kg, 4 - 5')

SB-08904 (68 U µg/kg, 5 - 5')

AOC 2-86.63
Wet Paint Booth

DP-SY-09 (6.6 U µg/kg, 4 - 5')

SB-08903 (61 U µg/kg, 5 - 5')

?

PL2-602A (6.6 U µg/kg, 3.5 - 5')

288-19 (840 µg/kg, 4 - 4')

288-20 (58 U µg/kg, 4 - 4')

SB-08915 (75 U µg/kg, 2 - 2')

?

288-4 (59 U µg/kg, 3 - 3')

288-5 (60 U µg/kg, 3 - 3')

288-6 (61 U µg/kg, 3 - 3')

SOUTH YARD

144

PL2-110C (22 U µg/kg, 6 - 6')

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

PL2-603A (65 µg/kg, 3.5 - 5')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

288-20 (58 U µg/kg, 4 - 4')

PL2-110C (22 U µg/kg, 6 - 6')

PL2-603A (65 µg/kg, 3.5 - 5')

SB291-9 (69 U µg/kg, 5 - 5')

SB291-3 (340 U µg/kg, 5 - 5')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70

Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)

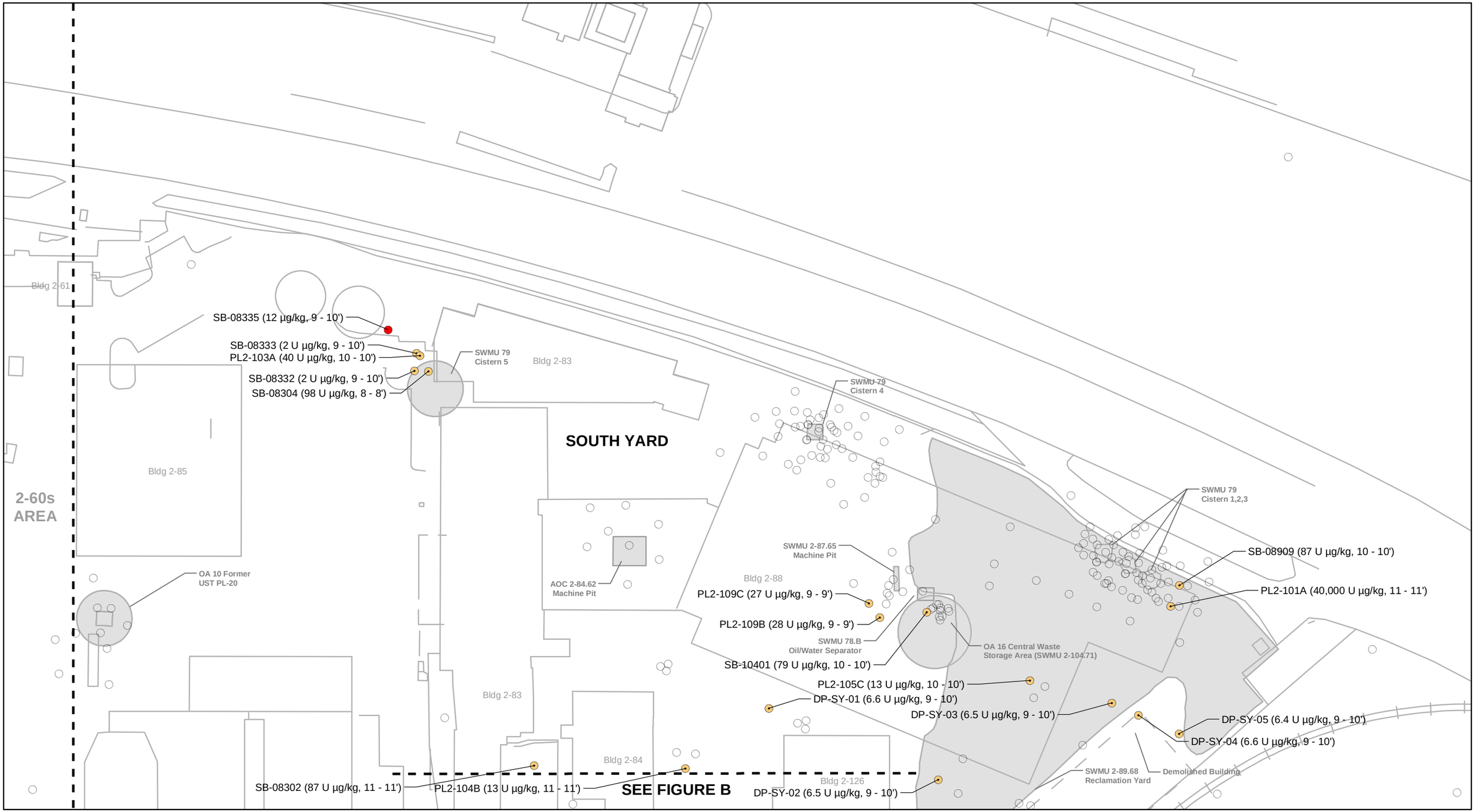
BENZO(B)FLUORANTHENE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_BENZO_BFLUORANTHENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(B)FLUORANTHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_BENZO_BFLUORANTHENESY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (87 U µg/kg, 11.5 - 11.5')

DP-SY-08 (6.4 U µg/kg, 9 - 10')

DP-SY-06 (6.5 U µg/kg, 9 - 10')

Bldg 2-117

Demolished Building

SB-08901 (80 U µg/kg, 7.5 - 7.5')

SB-08601 (35 U µg/kg, 7 - 7')

SB-08604 (89 U µg/kg, 9 - 9')

Bldg 2-80

PL2-106C (14 U µg/kg, 7 - 7')

DP-SY-07 (6.4 U µg/kg, 9 - 10')

DP-SY-09 (6.5 U µg/kg, 9 - 10')

AOC 2-86.63
Wet Paint Booth

SB-08917 (88 U µg/kg, 7.5 - 7.5')

PL2-602A (6.4 U µg/kg, 8.5 - 10')

SB-08915 (92 U µg/kg, 7.5 - 7.5')

SOUTH YARD

PL2-110C (13 U µg/kg, 9 - 9')

SWMU 2-80.57 Generator Sump

2-60s
AREA

OA 3 Former
UST PL-23

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (79 U µg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-110C (13 U µg/kg, 9 - 9')

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SB291-6 (66 U µg/kg, 2.5 - 7.5')

SB291-3 (70 U µg/kg, 9.5 - 9.5')

PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

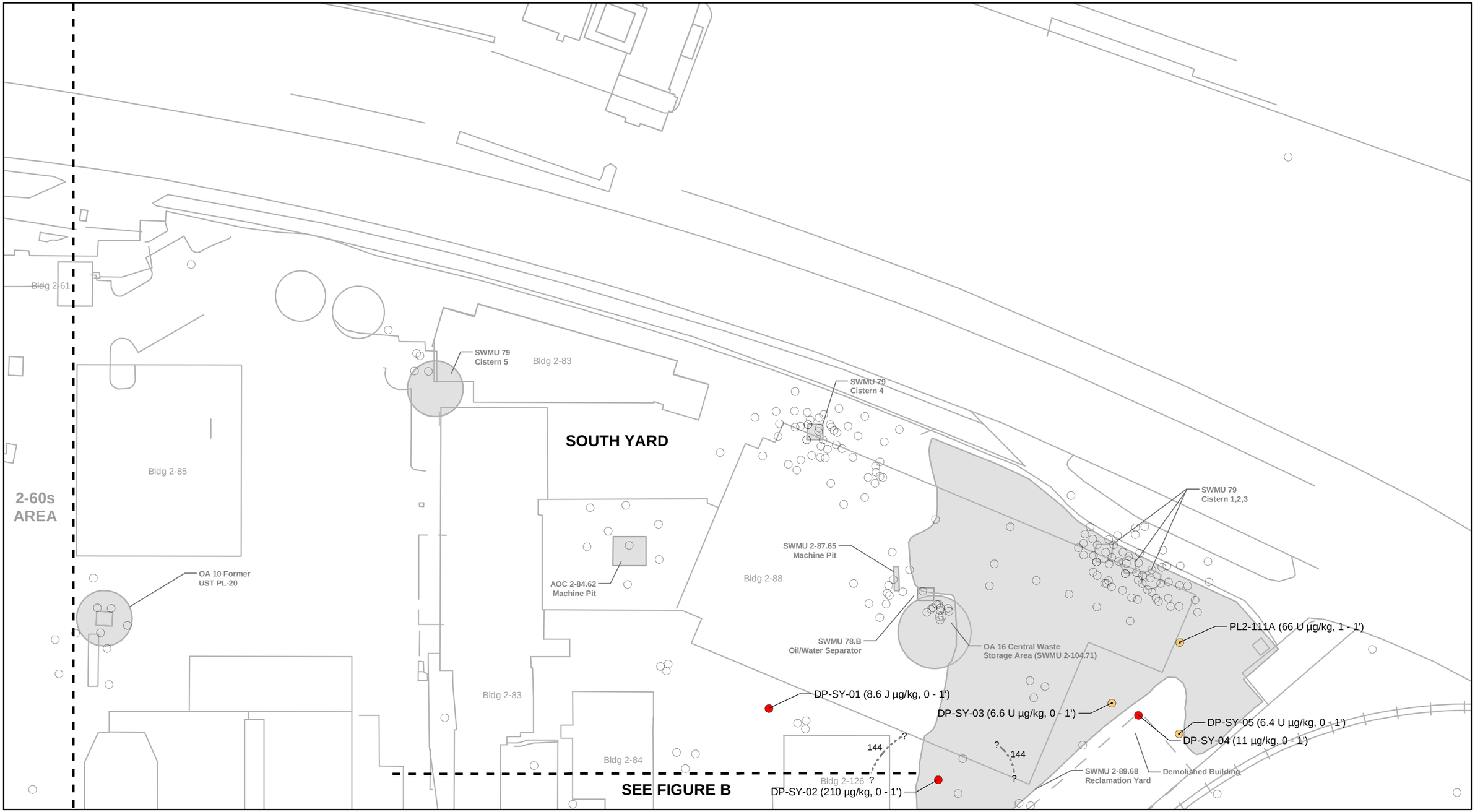
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(B)FLUORANTHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_BENZO_BFLUORANTHENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

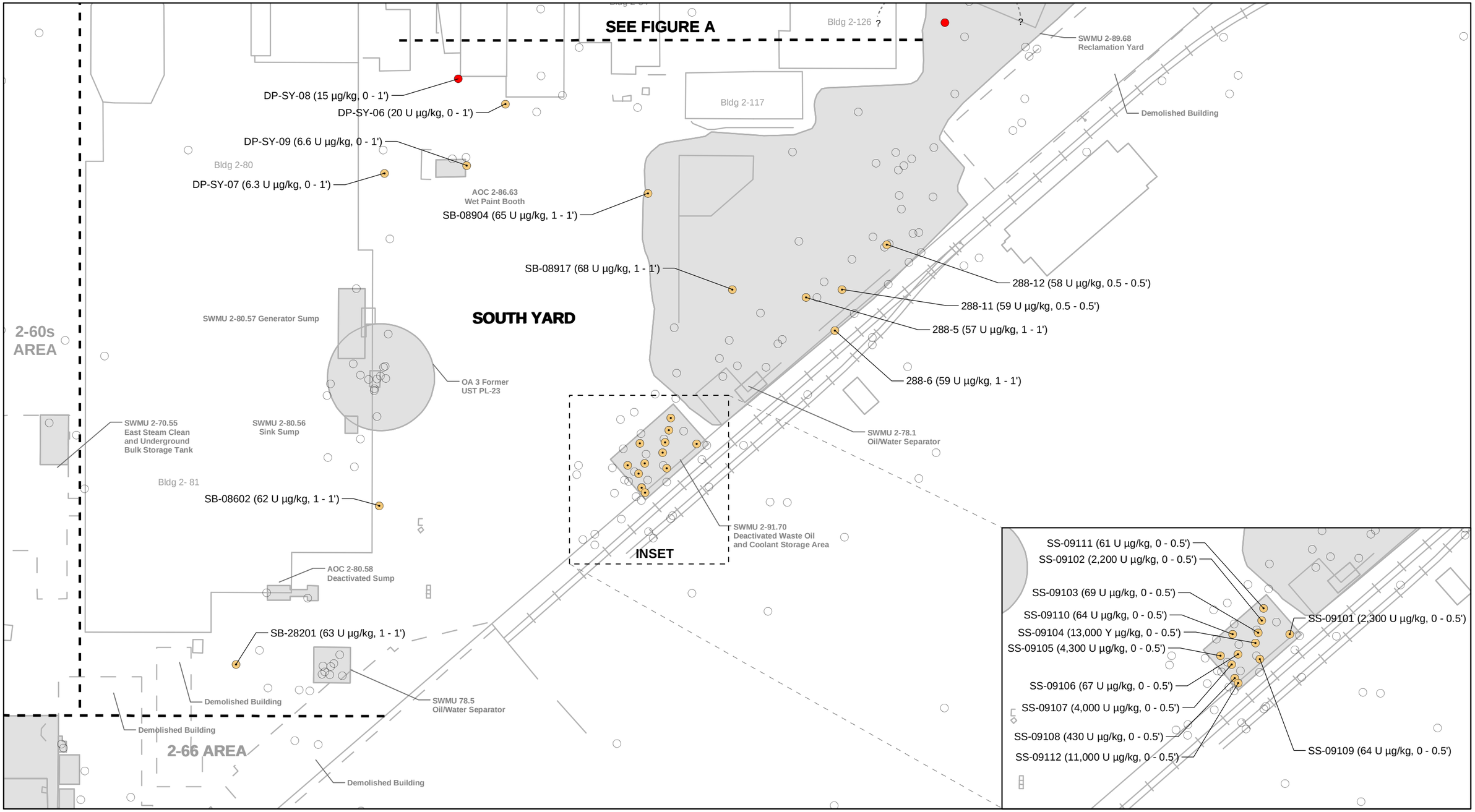
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(K)FLUORANTHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_BENZO_KFLUORANTHENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

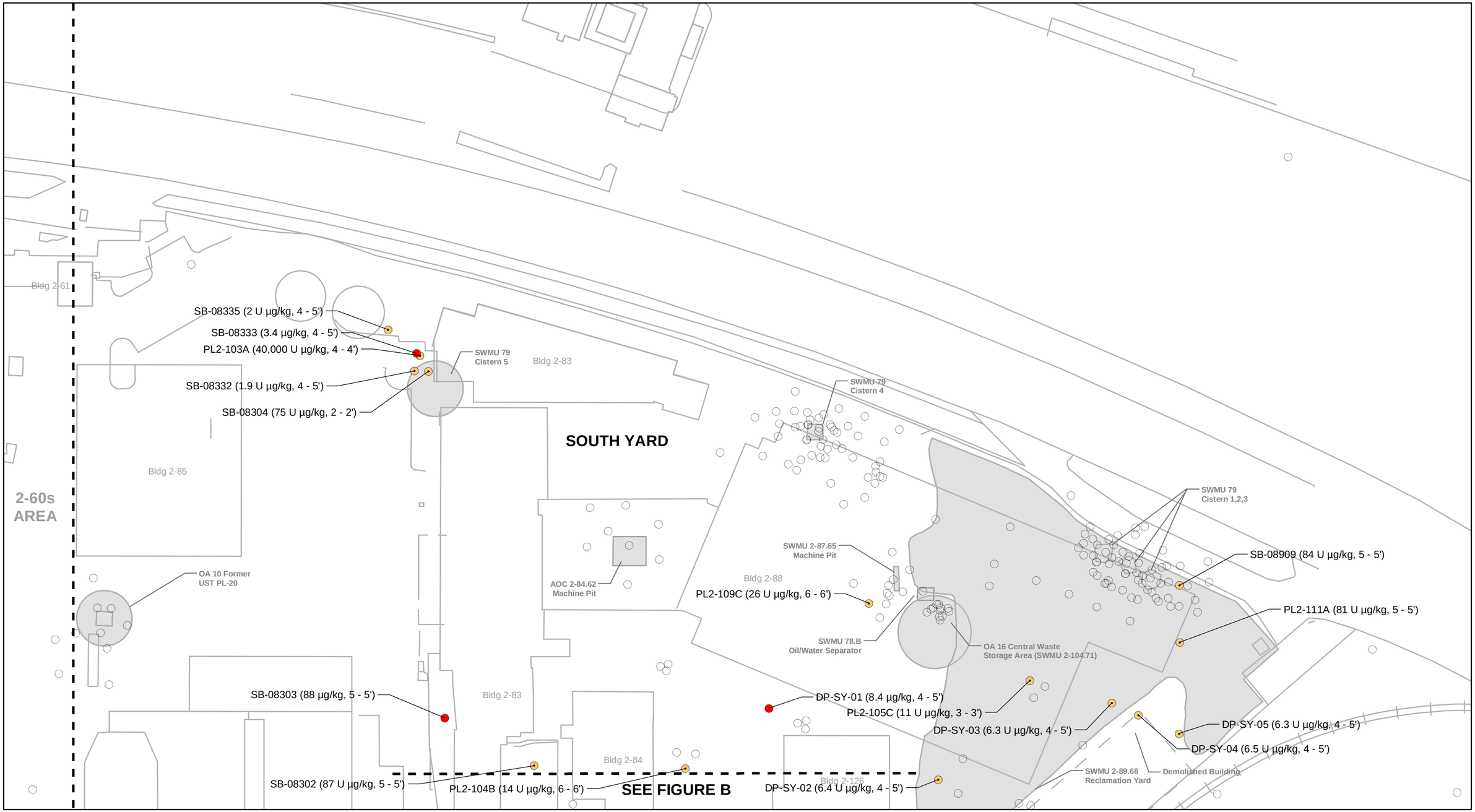
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(K)FLUORANTHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_BENZO_KFLUORANTHENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(K)FLUORANTHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_BENZO_KFLUORANTHENESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08901 (81 U µg/kg, 5 - 5')

Bldg 2-117

DP-SY-08 (5.3 J µg/kg, 4 - 5')
SB-08301 (94 U µg/kg, 4.5 - 4.5')
DP-SY-06 (6.6 U µg/kg, 4 - 5')

SB-08601 (29 U µg/kg, 1.5 - 1.5')
SB-08604 (88 U µg/kg, 6 - 6')
Bldg 2-80
DP-SY-07 (6.3 U µg/kg, 4 - 5')
DP-SY-09 (6.6 U µg/kg, 4 - 5')

AOC 2-86.63
Wet Paint Booth

SB-08904 (68 U µg/kg, 5 - 5')

SB-08903 (61 U µg/kg, 5 - 5')

288-19 (840 µg/kg, 4 - 4')

288-20 (58 U µg/kg, 4 - 4')

PL2-602A (6.6 U µg/kg, 3.5 - 5')

288-4 (59 U µg/kg, 3 - 3')

288-5 (60 U µg/kg, 3 - 3')

288-6 (61 U µg/kg, 3 - 3')

PL2-603A (84 µg/kg, 3.5 - 5')

SOUTH YARD

SB-08915 (75 U µg/kg, 2 - 2')

PL2-110C (22 U µg/kg, 6 - 6')

144

?

?

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

Bldg 2- 81

SWMU 2-78.1
Oil/Water Separator

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

288-20 (58 U µg/kg, 4 - 4')

PL2-110C (22 U µg/kg, 6 - 6')

PL2-603A (84 µg/kg, 3.5 - 5')

SB291-9 (69 U µg/kg, 5 - 5')

SB291-3 (340 U µg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

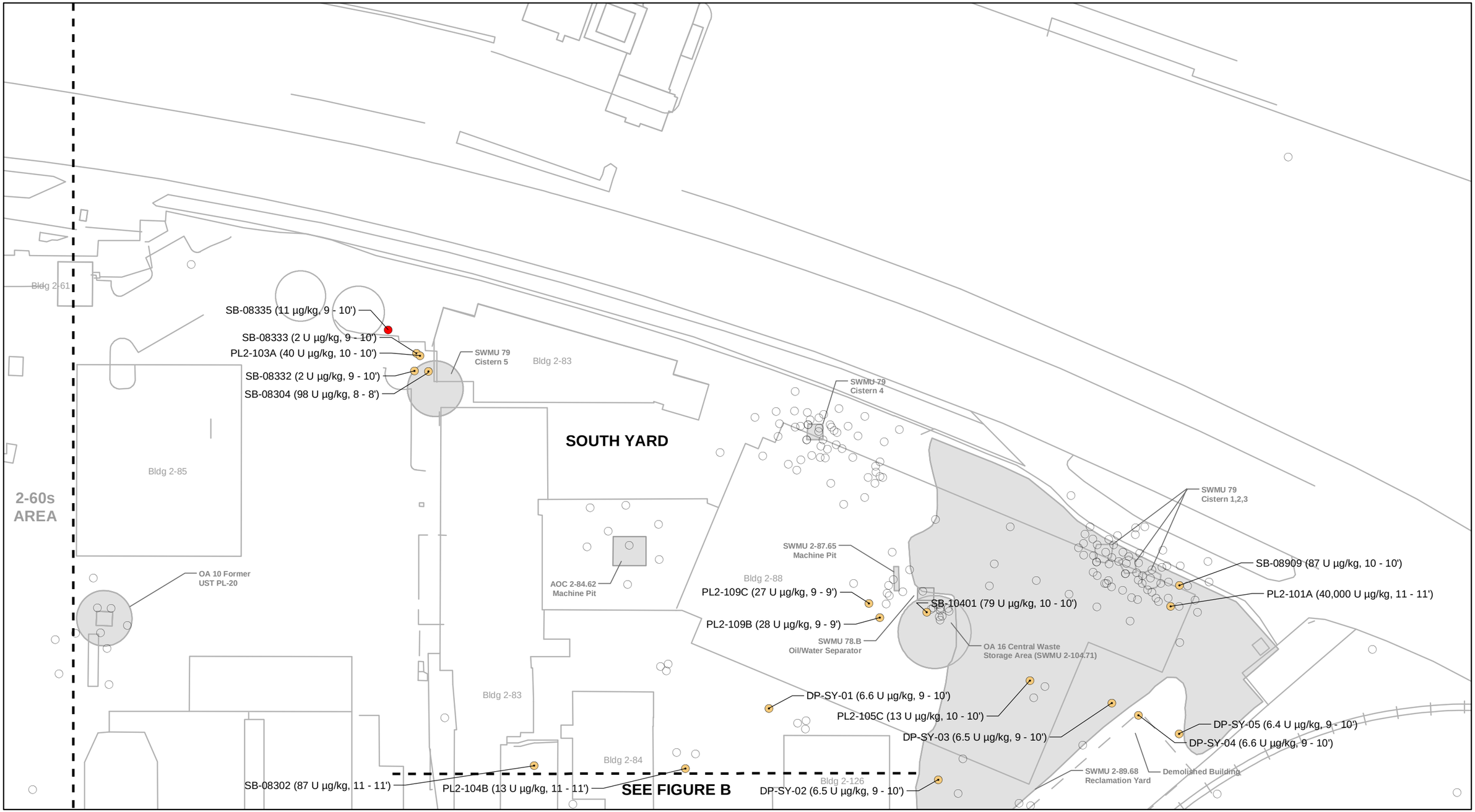
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(K)FLUORANTHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_BENZO_KFLUORANTHENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(K)FLUORANTHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_BENZO_KFLUORANTHENESY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (87 U µg/kg, 11.5 - 11.5')

DP-SY-08 (6.4 U µg/kg, 9 - 10')

DP-SY-06 (6.5 U µg/kg, 9 - 10')

Bldg 2-117

Demolished Building

SB-08901 (80 U µg/kg, 7.5 - 7.5')

SB-08601 (35 U µg/kg, 7 - 7')

SB-08604 (89 U µg/kg, 9 - 9')

Bldg 2-80

DP-SY-07 (6.4 U µg/kg, 9 - 10')

DP-SY-09 (6.5 U µg/kg, 9 - 10')

AOC 2-86.63
Wet Paint Booth

PL2-106C (14 U µg/kg, 7 - 7')

SB-08917 (88 U µg/kg, 7.5 - 7.5')

SB-08915 (92 U µg/kg, 7.5 - 7.5')

SOUTH YARD

PL2-602A (6.4 U µg/kg, 8.5 - 10')

2-60s
AREA

SWMU 2-80.57 Generator Sump

PL2-110C (13 U µg/kg, 9 - 9')

OA 3 Former
UST PL-23

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (79 U µg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-110C (13 U µg/kg, 9 - 9')

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SB291-6 (66 U µg/kg, 2.5 - 7.5')

SB291-3 (70 U µg/kg, 9.5 - 9.5')

PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 144 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

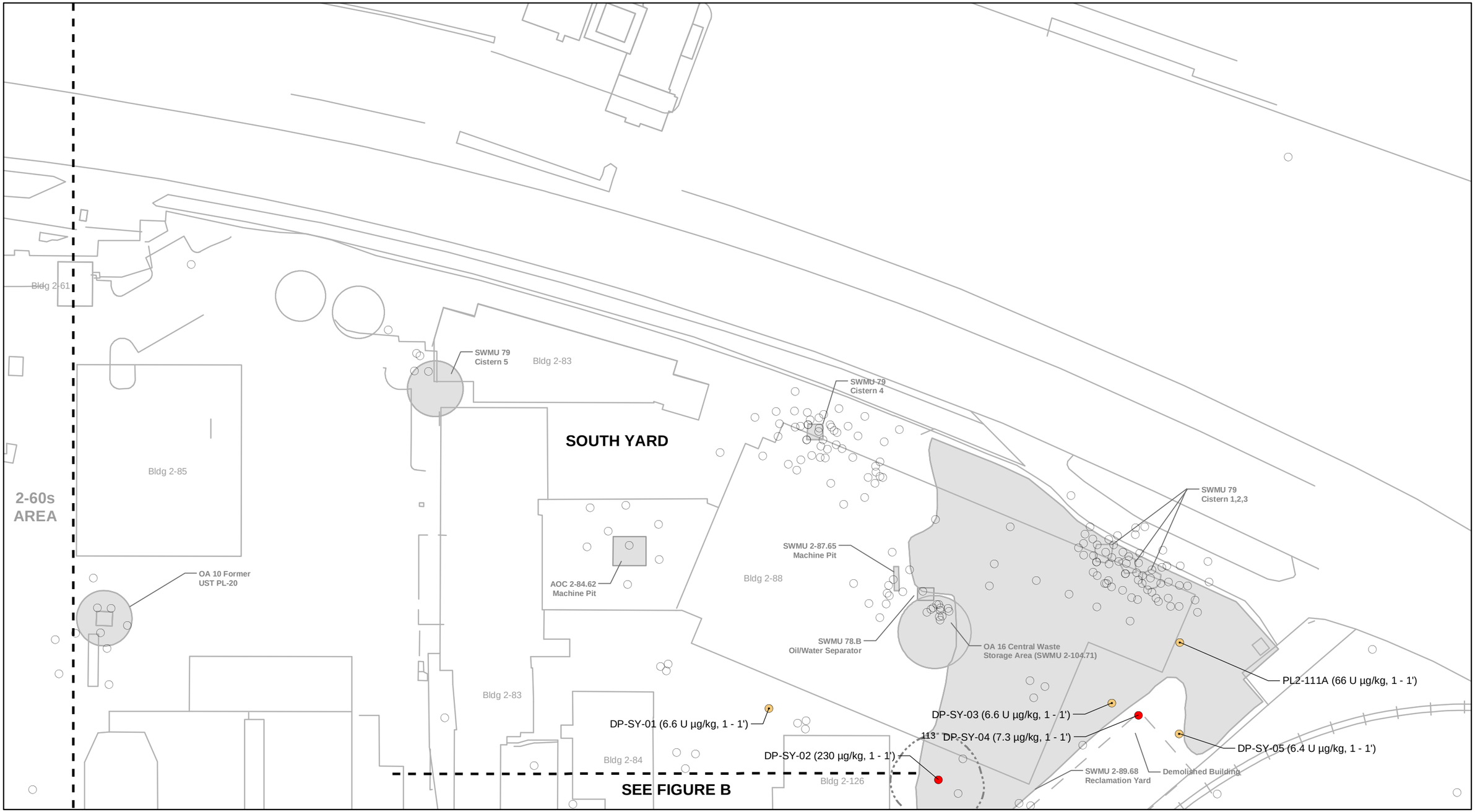
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(K)FLUORANTHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_BENZO_KFLUORANTHENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 113 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

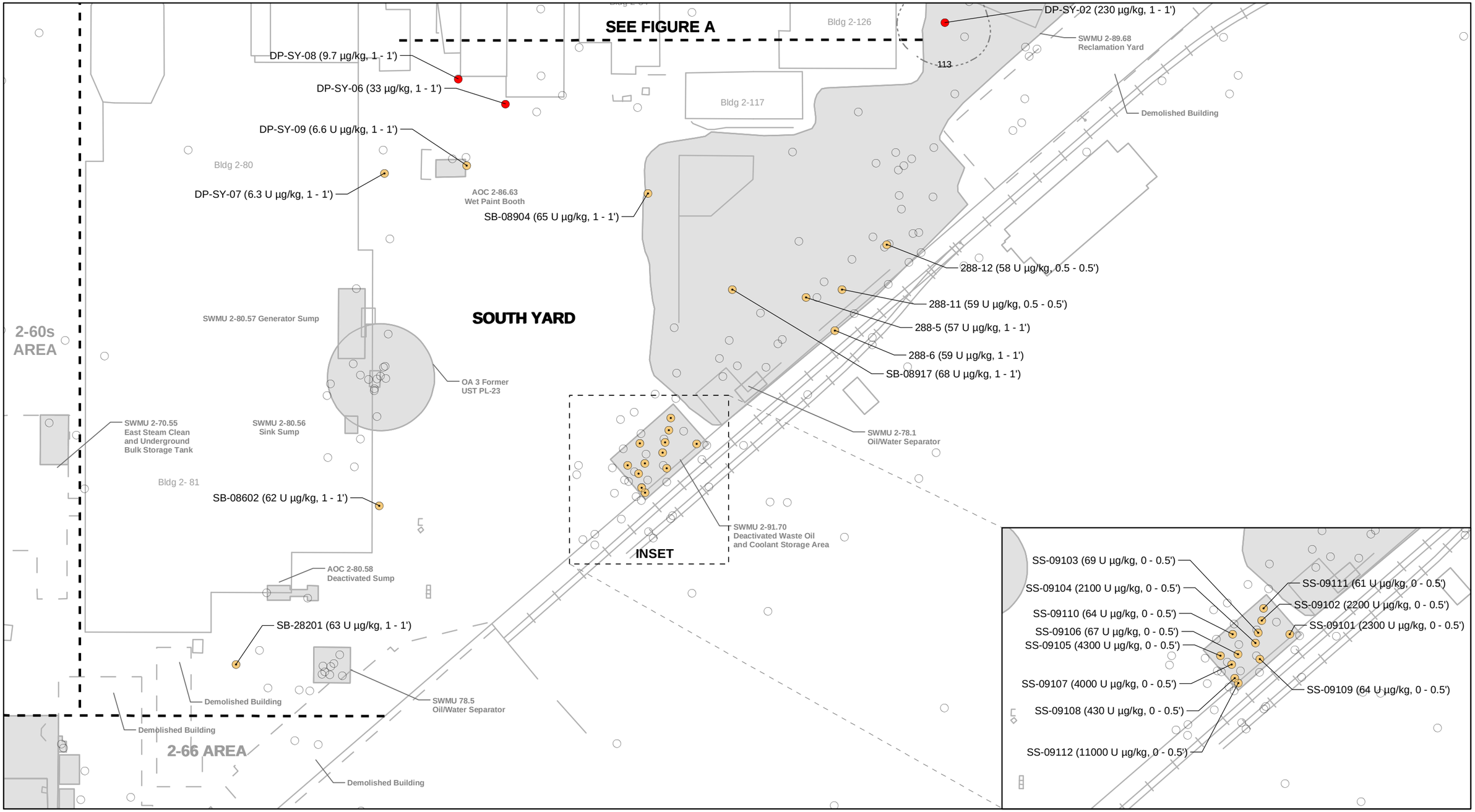
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(A)PYRENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_BENZOAPYRENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 113 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

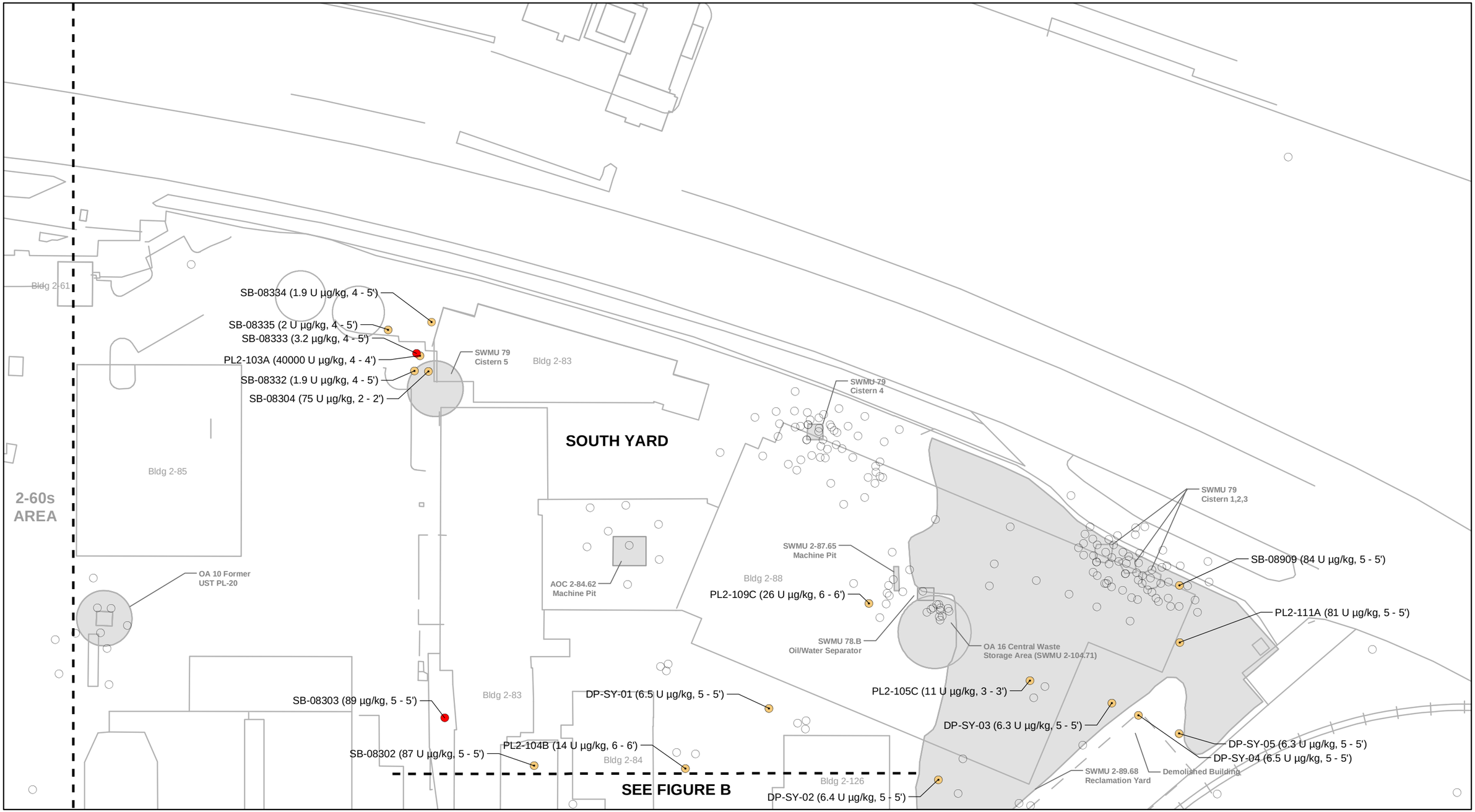
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(A)PYRENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_BENZOAPYRENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 113 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(A)PYRENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_BENZOAPYRENESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08901 (81 U µg/kg, 5 - 5')

SB-08301 (94 U µg/kg, 4.5 - 4.5')

DP-SY-08 (6.6 U µg/kg, 5 - 5')

DP-SY-06 (6.6 U µg/kg, 5 - 5')

Bldg 2-117

SB-08601 (29 U µg/kg, 1.5 - 1.5')

SB-08604 (88 U µg/kg, 6 - 6')

Bldg 2-80

DP-SY-07 (6.3 U µg/kg, 5 - 5')

DP-SY-09 (6.6 U µg/kg, 5 - 5')

AOC 2-86.63
Wet Paint Booth

SB-08904 (68 U µg/kg, 5 - 5')

SB-08903 (61 U µg/kg, 5 - 5')

?

PL2-602A (22 µg/kg, 5 - 5')

288-4 (59 U µg/kg, 3 - 3')

288-5 (60 U µg/kg, 3 - 3')

288-19 (1400 µg/kg, 4 - 4')

288-6 (61 U µg/kg, 3 - 3')

PL2-603A (80 µg/kg, 5 - 5')

288-20 (58 U µg/kg, 4 - 4')

PL2-110C (22 U µg/kg, 6 - 6')

SWMU 2-78.1
Oil/Water Separator

SB-08915 (75 U µg/kg, 2 - 2')

SOUTH YARD

113

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

288-20 (58 U µg/kg, 4 - 4')

PL2-603A (80 µg/kg, 5 - 5')

PL2-110C (22 U µg/kg, 6 - 6')

SB291-9 (69 U µg/kg, 5 - 5')

SB291-3 (340 U µg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 113 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

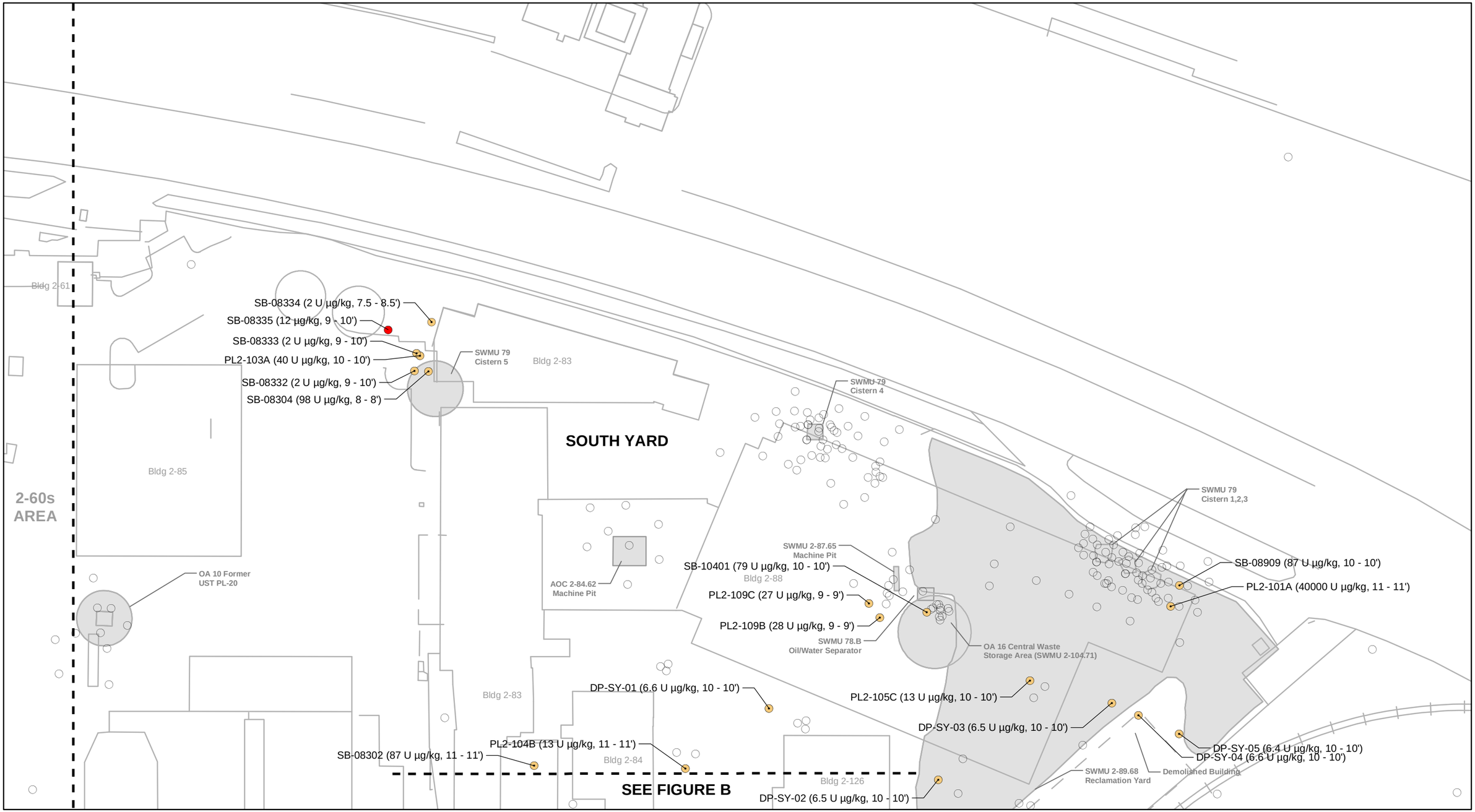
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(A)PYRENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_BENZOAPYRENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 113 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZO(A)PYRENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_BENZOAPYRENESY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08301 (87 U µg/kg, 11.5 - 11.5')

DP-SY-08 (6.4 U µg/kg, 10 - 10')

DP-SY-06 (6.5 U µg/kg, 10 - 10')

SB-08601 (35 U µg/kg, 7 - 7')

SB-08604 (89 U µg/kg, 9 - 9')

Bldg 2-117

SB-08901 (80 U µg/kg, 7.5 - 7.5')

Bldg 2-80

DP-SY-07 (6.4 U µg/kg, 10 - 10')

DP-SY-09 (6.5 U µg/kg, 10 - 10')

AOC 2-86.63
Wet Paint Booth

PL2-106C (14 U µg/kg, 7 - 7')

SB-08917 (88 U µg/kg, 7.5 - 7.5')

PL2-602A (39 µg/kg, 10 - 10')

SB-08915 (92 U µg/kg, 7.5 - 7.5')

SOUTH YARD

SWMU 2-80.57 Generator Sump

2-60s
AREA

PL2-603A (6.4 U µg/kg, 10 - 10')

OA 3 Former
UST PL-23

PL2-110C (13 U µg/kg, 9 - 9')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (79 U µg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-603A (6.4 U µg/kg, 10 - 10')

PL2-110C (13 U µg/kg, 9 - 9')

SB291-6 (66 U µg/kg, 2.5 - 7.5')

SB291-3 (70 U µg/kg, 9.5 - 9.5')

PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 113 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

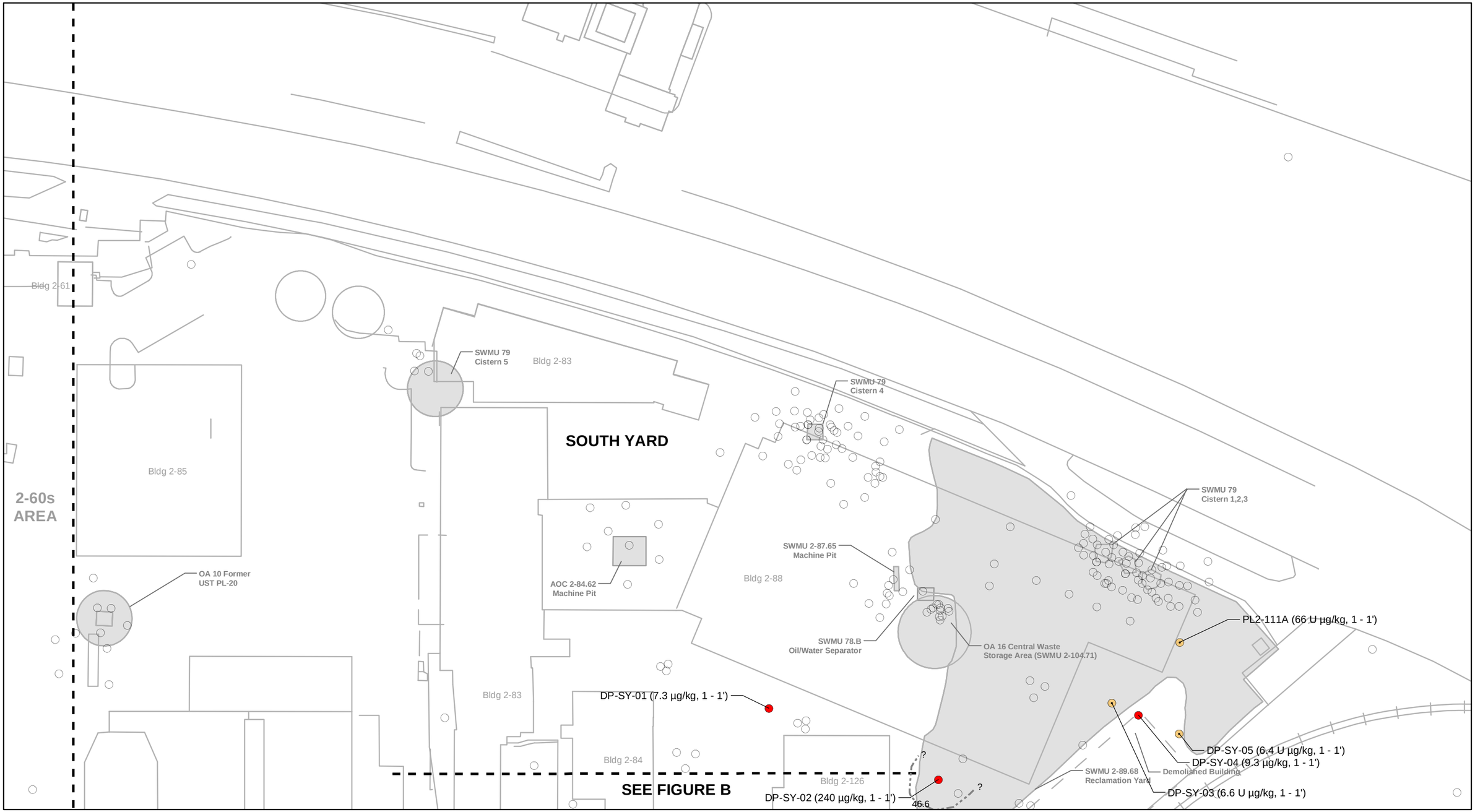
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZO(A)PYRENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_BENZOAPYRENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 46.6 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

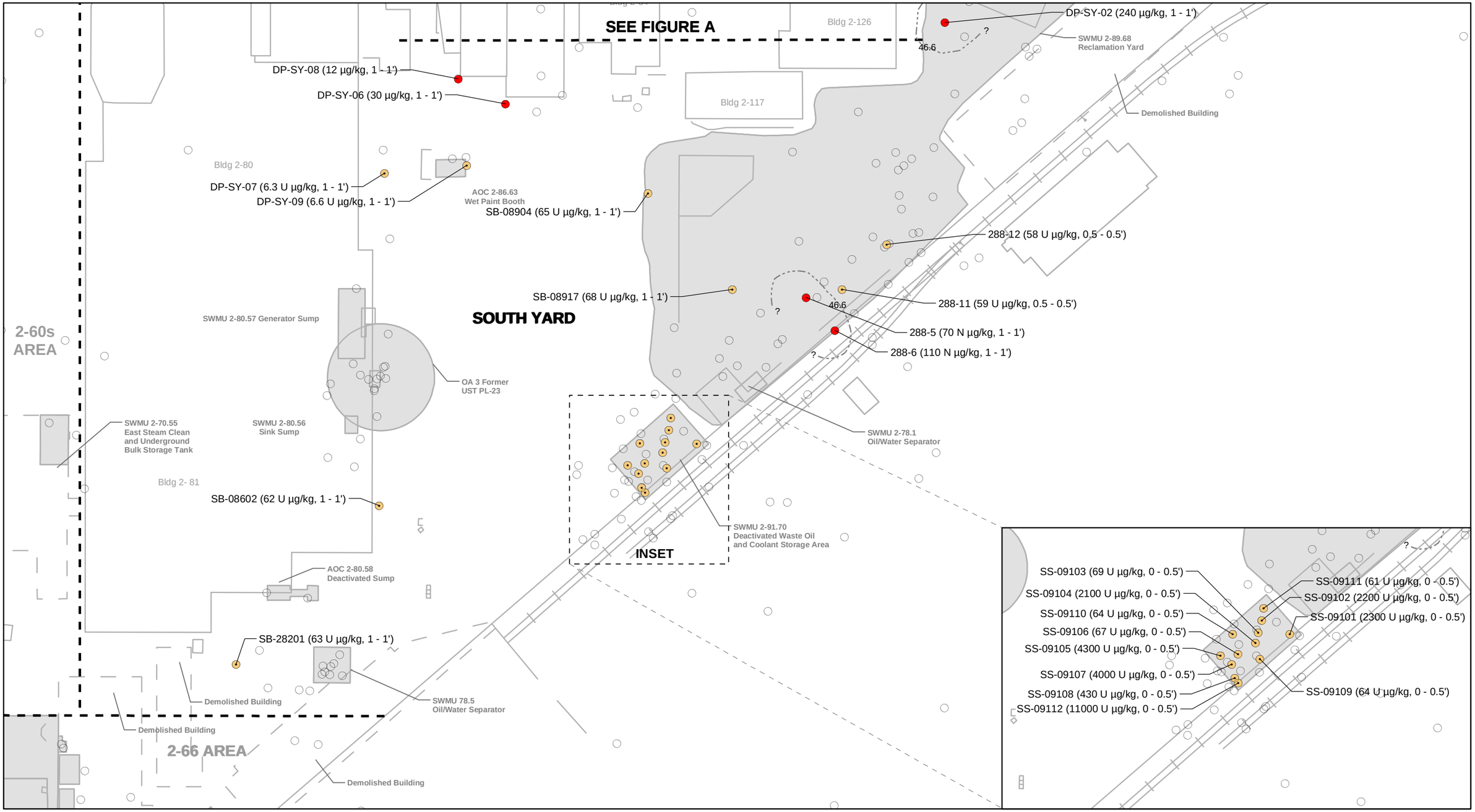
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CHRYSENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_CHRYSENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 46.6 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

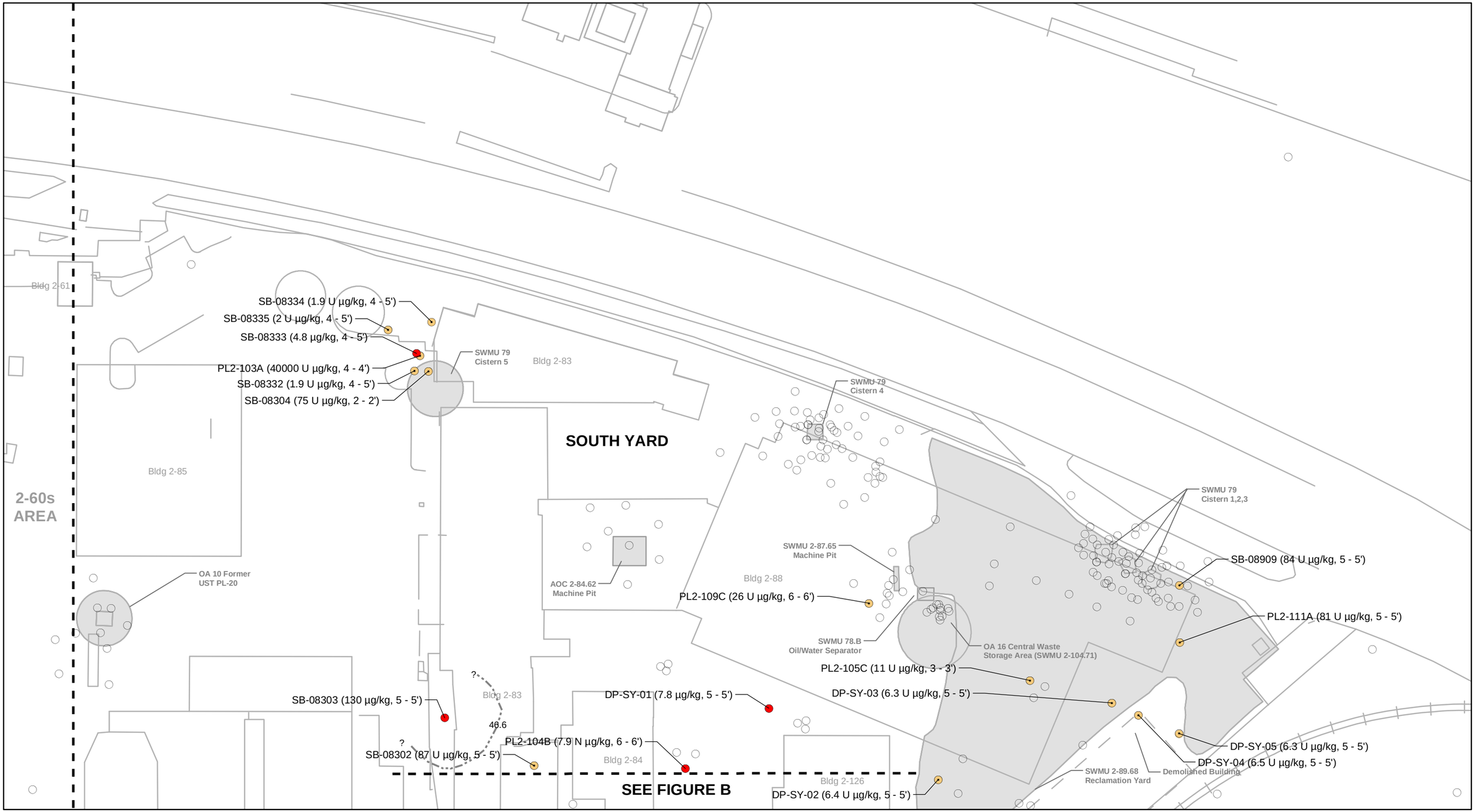
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CHRYSENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_CHRYSENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 46.6 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

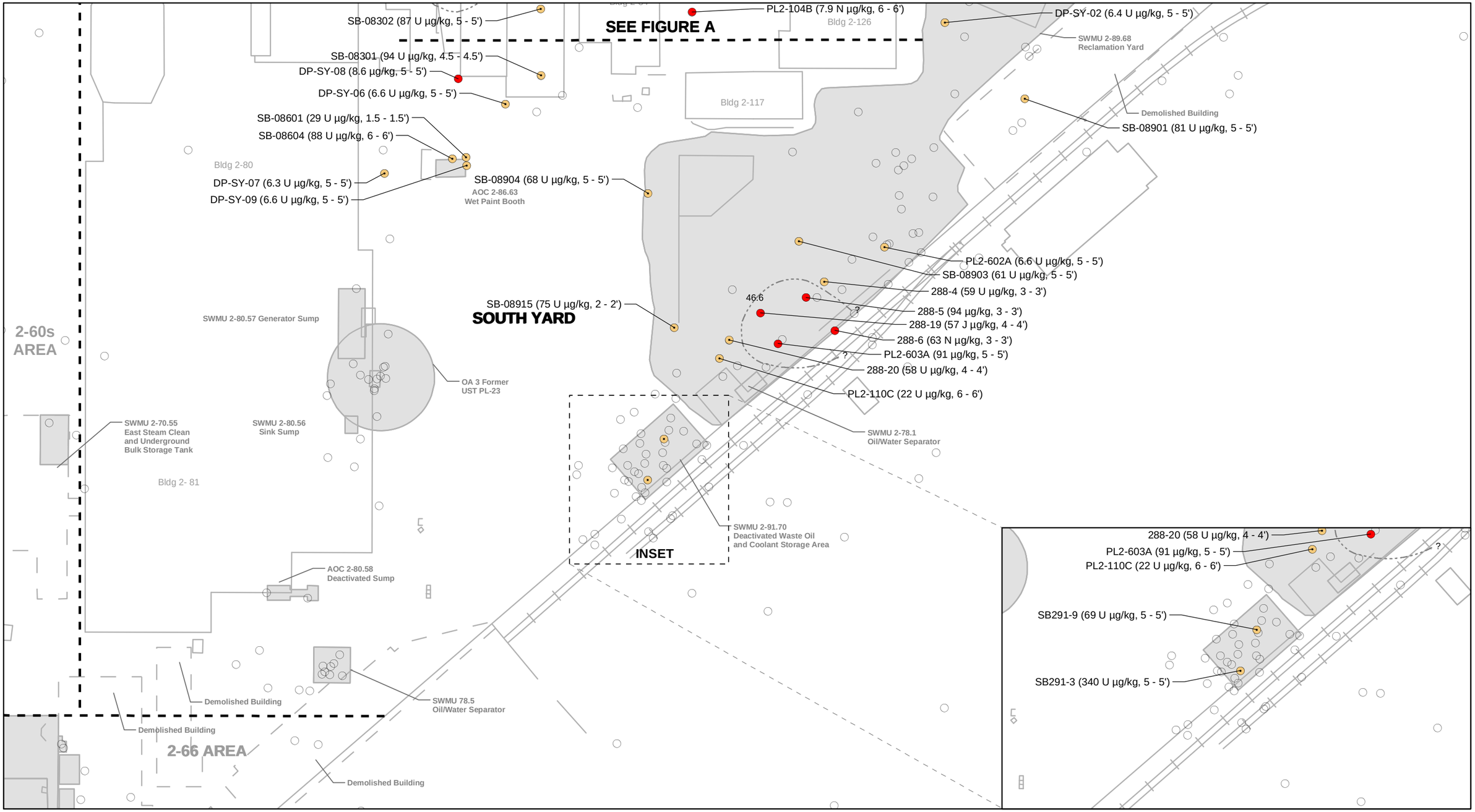
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CHRYSENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_CHRYSENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 46.6 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

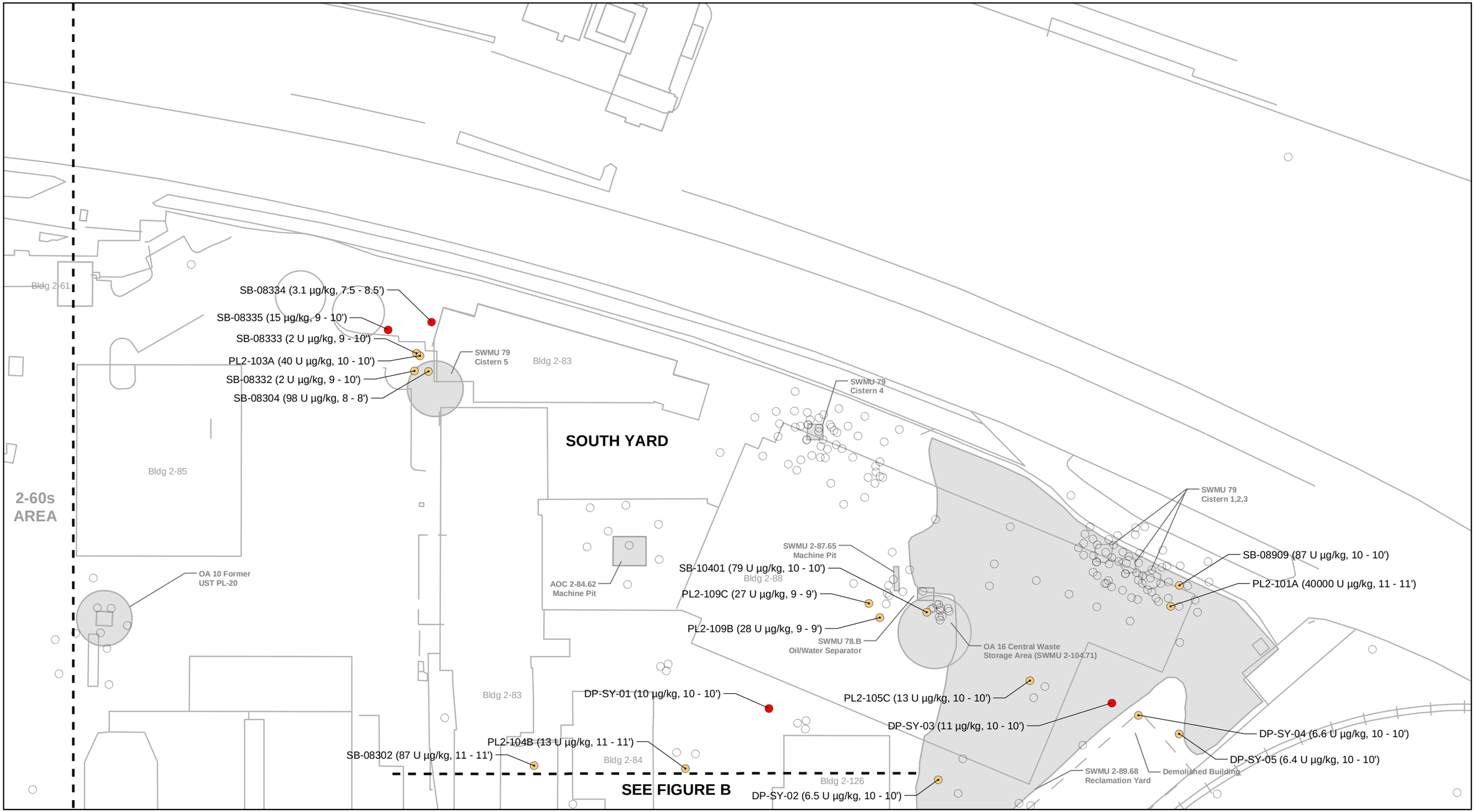
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CHRYSENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_CHRYSENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 46.6 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CHRYSENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_CHRYSENESY3A.mxd

Golder Associates

SB-08302 (87 U µg/kg, 11 - 11')
SB-08301 (87 U µg/kg, 11.5 - 11.5')
DP-SY-08 (6.4 U µg/kg, 10 - 10')
DP-SY-06 (6.5 U µg/kg, 10 - 10')
SB-08601 (35 U µg/kg, 7 - 7')
SB-08604 (89 U µg/kg, 9 - 9')
DP-SY-07 (6.4 U µg/kg, 10 - 10')
DP-SY-09 (6.5 U µg/kg, 10 - 10')
Bldg 2-80
AOC 2-86.63
Wet Paint Booth
SEE FIGURE A
PL2-104B (13 U µg/kg, 11 - 11')
Bldg 2-126
DP-SY-02 (6.5 U µg/kg, 10 - 10')
SWMU 2-89.68
Reclamation Yard
Bldg 2-117
Demolished Building
SB-08901 (80 U µg/kg, 7.5 - 7.5')
PL2-106C (14 U µg/kg, 7 - 7')
SB-08917 (88 U µg/kg, 7.5 - 7.5')
PL2-602A (6.4 U µg/kg, 10 - 10')
SB-08915 (92 U µg/kg, 7.5 - 7.5')
SOUTH YARD
2-60s
AREA
SWMU 2-80.57 Generator Sump
OA 3 Former
UST PL-23
PL2-603A (6.4 U µg/kg, 10 - 10')
PL2-110C (13 U µg/kg, 9 - 9')
SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank
SWMU 2-80.56
Sink Sump
SWMU 2-78.1
Oil/Water Separator
Bldg 2- 81
SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area
INSET
AOC 2-80.58
Deactivated Sump
SB-08201 (79 U µg/kg, 11 - 11')
Demolished Building
SWMU 78.5
Oil/Water Separator
Demolished Building
2-66 AREA
Demolished Building
PL2-603A (6.4 U µg/kg, 10 - 10')
PL2-110C (13 U µg/kg, 9 - 9')
SB291-6 (66 U µg/kg, 2.5 - 7.5')
SB291-3 (70 U µg/kg, 9.5 - 9.5')
PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 46.6 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

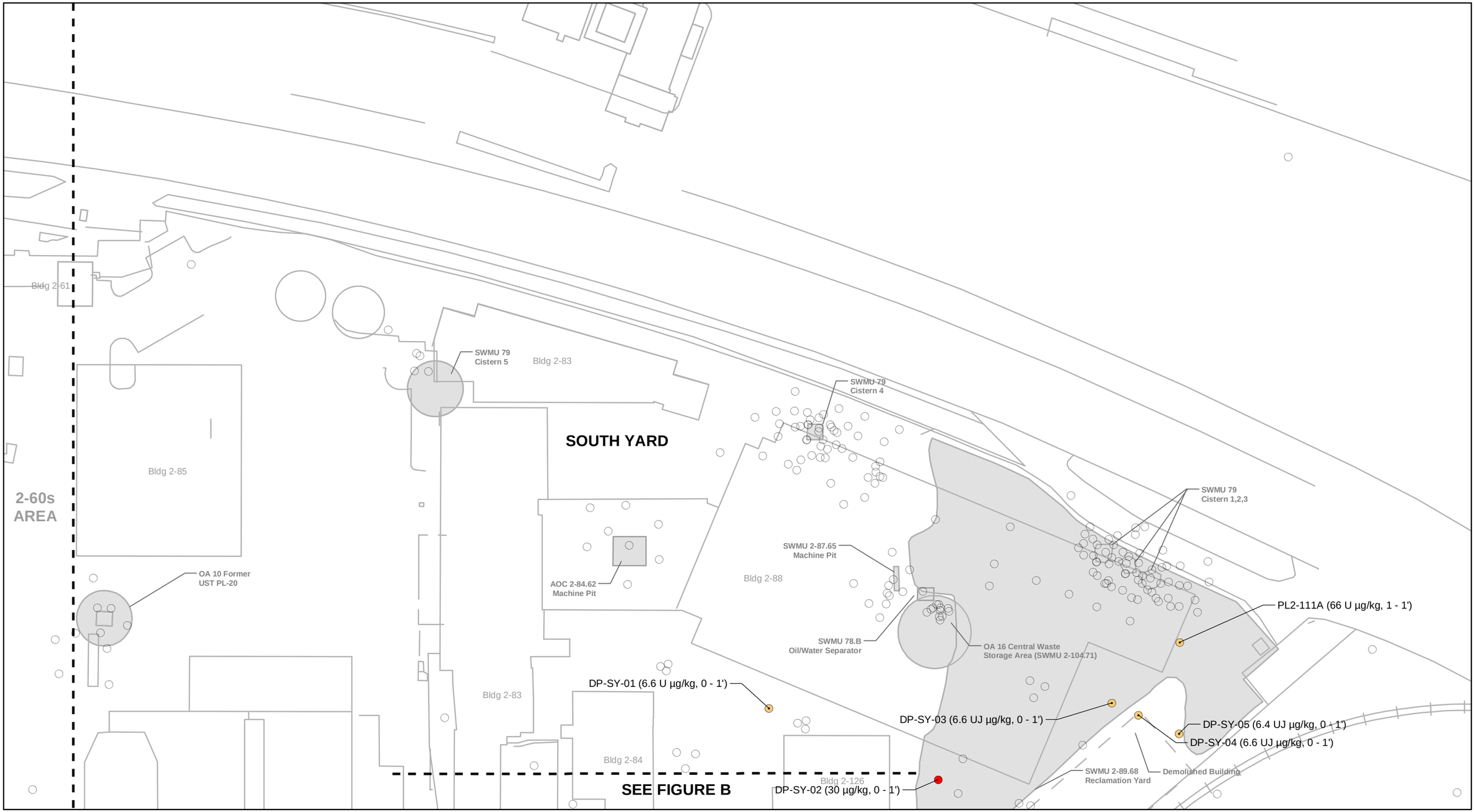
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CHRYSENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_CHRYSENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 210 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

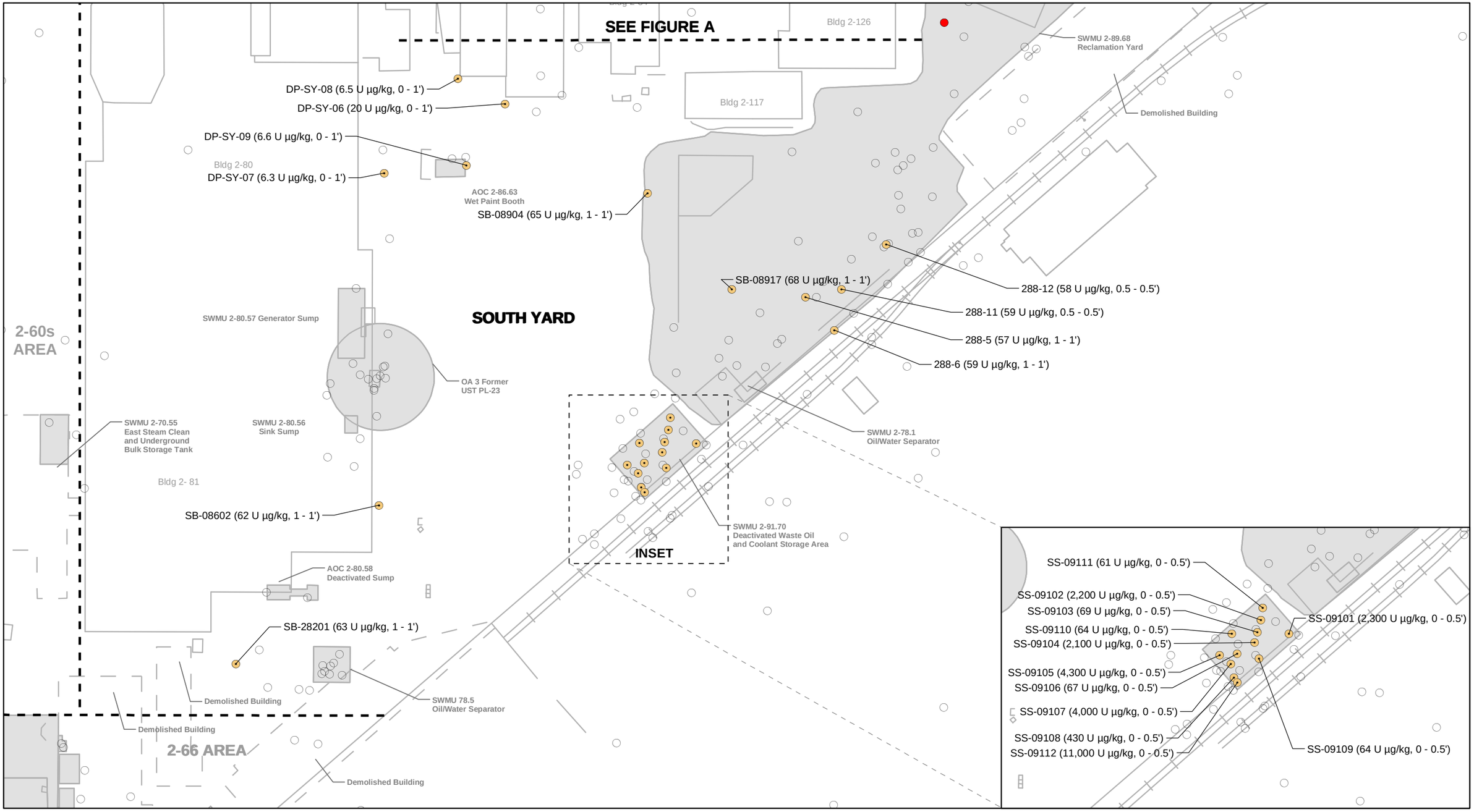
DIBENZ(A,H)ANTHRACENE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_DIBENZ_AHANTHRACENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 210 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)

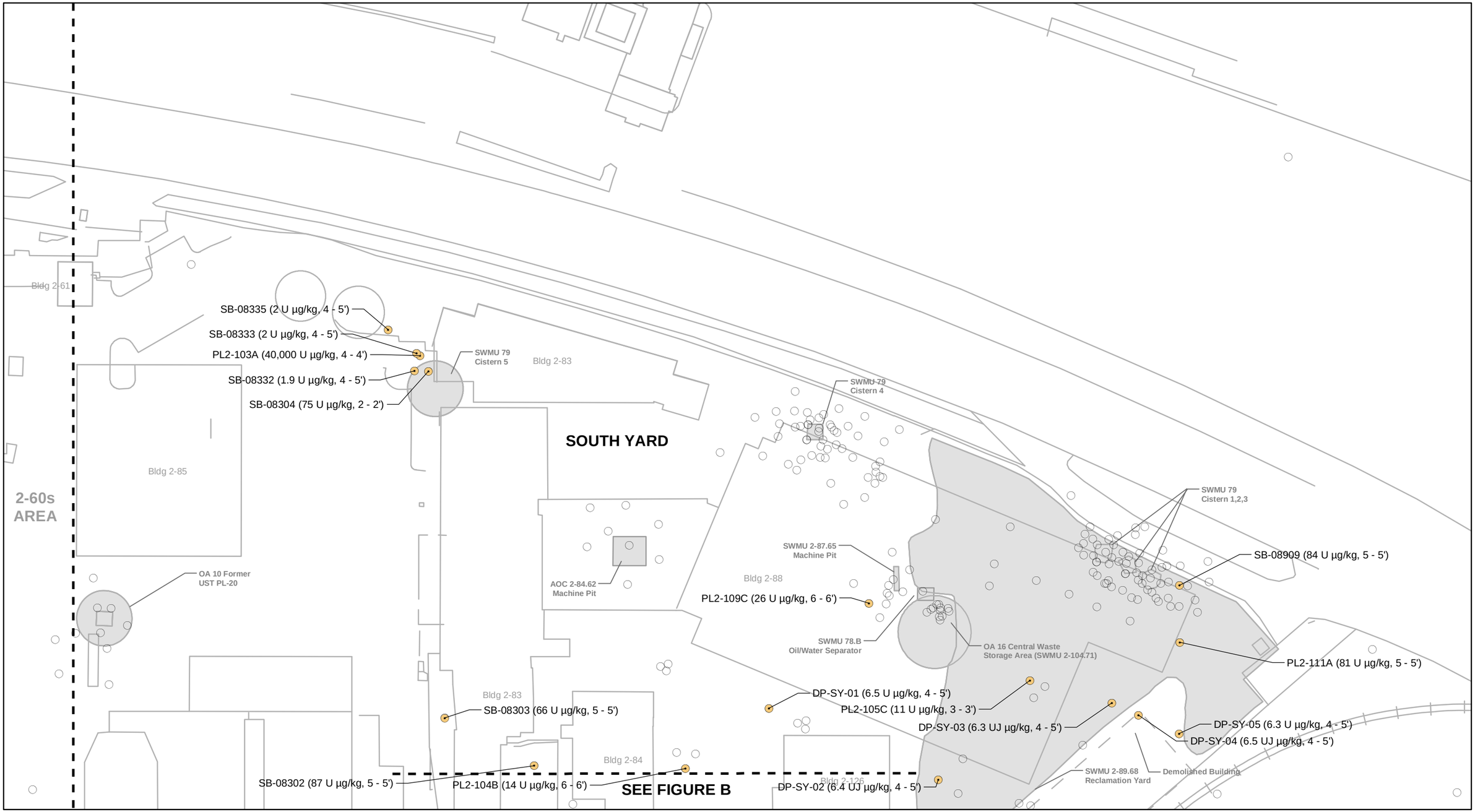
DIBENZ(A,H)ANTHRACENE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_DIBENZ_AHANTHRACENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 210 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

DIBENZ(A,H)ANTHRACENE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_DIBENZ_AHANTHRACENESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08901 (81 U µg/kg, 5 - 5')

Bldg 2-117

DP-SY-08 (6.6 U µg/kg, 4 - 5')

SB-08301 (94 U µg/kg, 4.5 - 4.5')

DP-SY-06 (6.6 U µg/kg, 4 - 5')

SB-08601 (29 U µg/kg, 1.5 - 1.5')

SB-08604 (88 U µg/kg, 6 - 6')

Bldg 2-80

DP-SY-07 (6.3 U µg/kg, 4 - 5')

DP-SY-09 (6.6 U µg/kg, 4 - 5')

AOC 2-86.63
Wet Paint Booth

SB-08904 (68 U µg/kg, 5 - 5')

SB-08903 (61 U µg/kg, 5 - 5')

288-19 (1,900 µg/kg, 4 - 4')

288-20 (87 µg/kg, 4 - 4')

SB-08915 (75 U µg/kg, 2 - 2')

SOUTH YARD

PL2-110C (22 U µg/kg, 6 - 6')

210

PL2-602A (6.6 U µg/kg, 3.5 - 5')

288-4 (59 U µg/kg, 3 - 3')

288-5 (60 U µg/kg, 3 - 3')

288-6 (61 U µg/kg, 3 - 3')

PL2-603A (12 J µg/kg, 3.5 - 5')

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

Bldg 2- 81

SWMU 2-78.1
Oil/Water Separator

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

288-20 (87 µg/kg, 4 - 4')

PL2-110C (22 U µg/kg, 6 - 6')

PL2-603A (12 J µg/kg, 3.5 - 5')

SB291-9 (69 U µg/kg, 5 - 5')

SB291-3 (340 U µg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 210 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

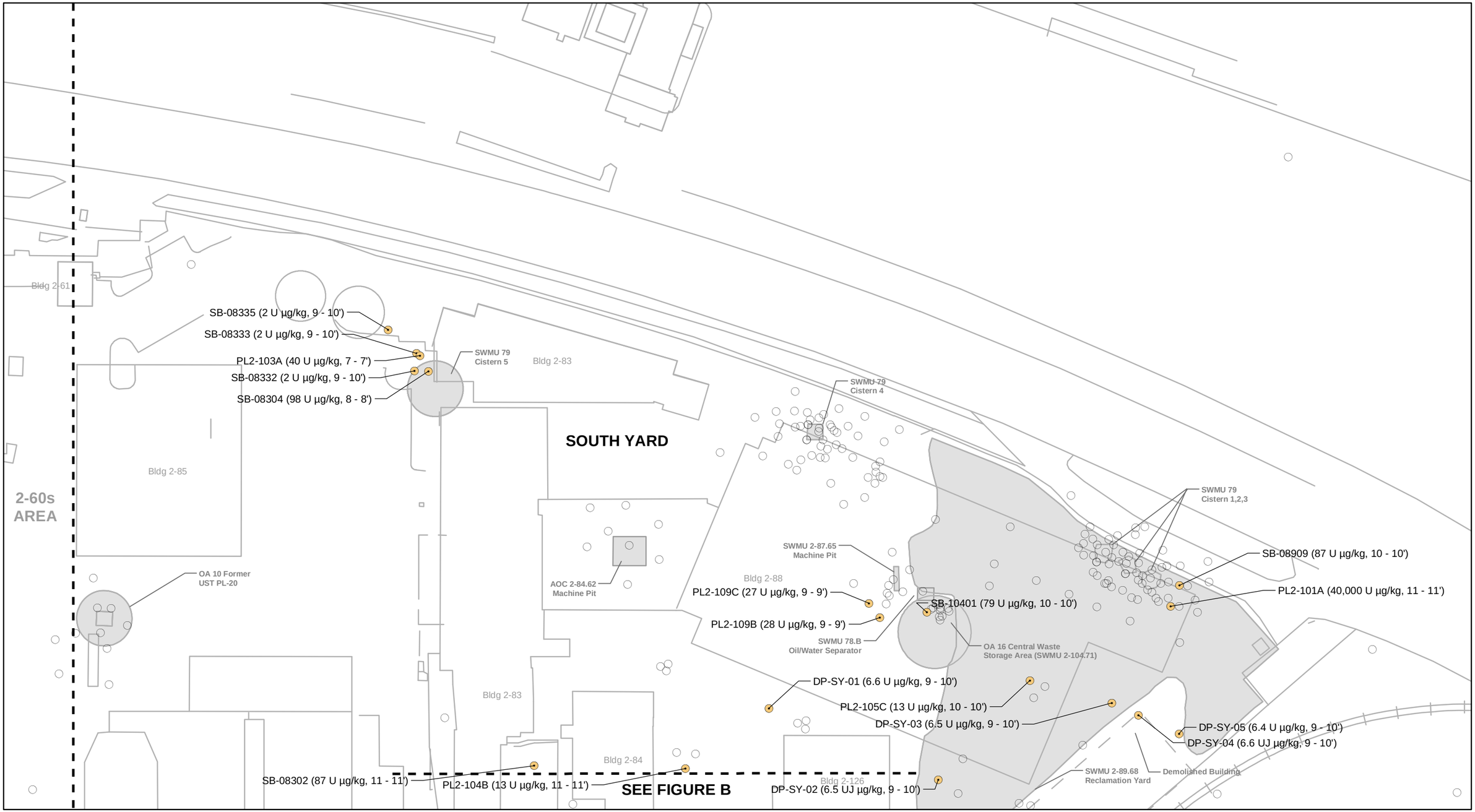
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
DIBENZ(A,H)ANTHRACENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_DIBENZ_AHANTHRACENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 210 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
DIBENZ(A,H)ANTHRACENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_DIBENZ_AHANTHRACENESY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08901 (80 U µg/kg, 7.5 - 7.5')

DP-SY-08 (6.4 U µg/kg, 9 - 10')

SB-08301 (87 U µg/kg, 11.5 - 11.5')

Bldg 2-117

DP-SY-06 (6.5 U µg/kg, 9 - 10')

PL2-106C (14 U µg/kg, 7 - 7')

SB-08601 (35 U µg/kg, 7 - 7')

SB-08604 (89 U µg/kg, 9 - 9')

Bldg 2-80

DP-SY-07 (6.4 U µg/kg, 9 - 10')

DP-SY-09 (6.5 U µg/kg, 9 - 10')

AOC 2-86.63
Wet Paint Booth

SB-08917 (88 U µg/kg, 7.5 - 7.5')

PL2-602A (6.4 U µg/kg, 8.5 - 10')

SB-08915 (92 U µg/kg, 7.5 - 7.5')

SOUTH YARD

SWMU 2-80.57 Generator Sump

2-60s
AREA

PL2-110C (13 U µg/kg, 9 - 9')

OA 3 Former
UST PL-23

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (79 U µg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-110C (13 U µg/kg, 9 - 9')

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SB291-6 (66 U µg/kg, 2.5 - 7.5')

SB291-3 (70 U µg/kg, 9.5 - 9.5')

PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 210 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

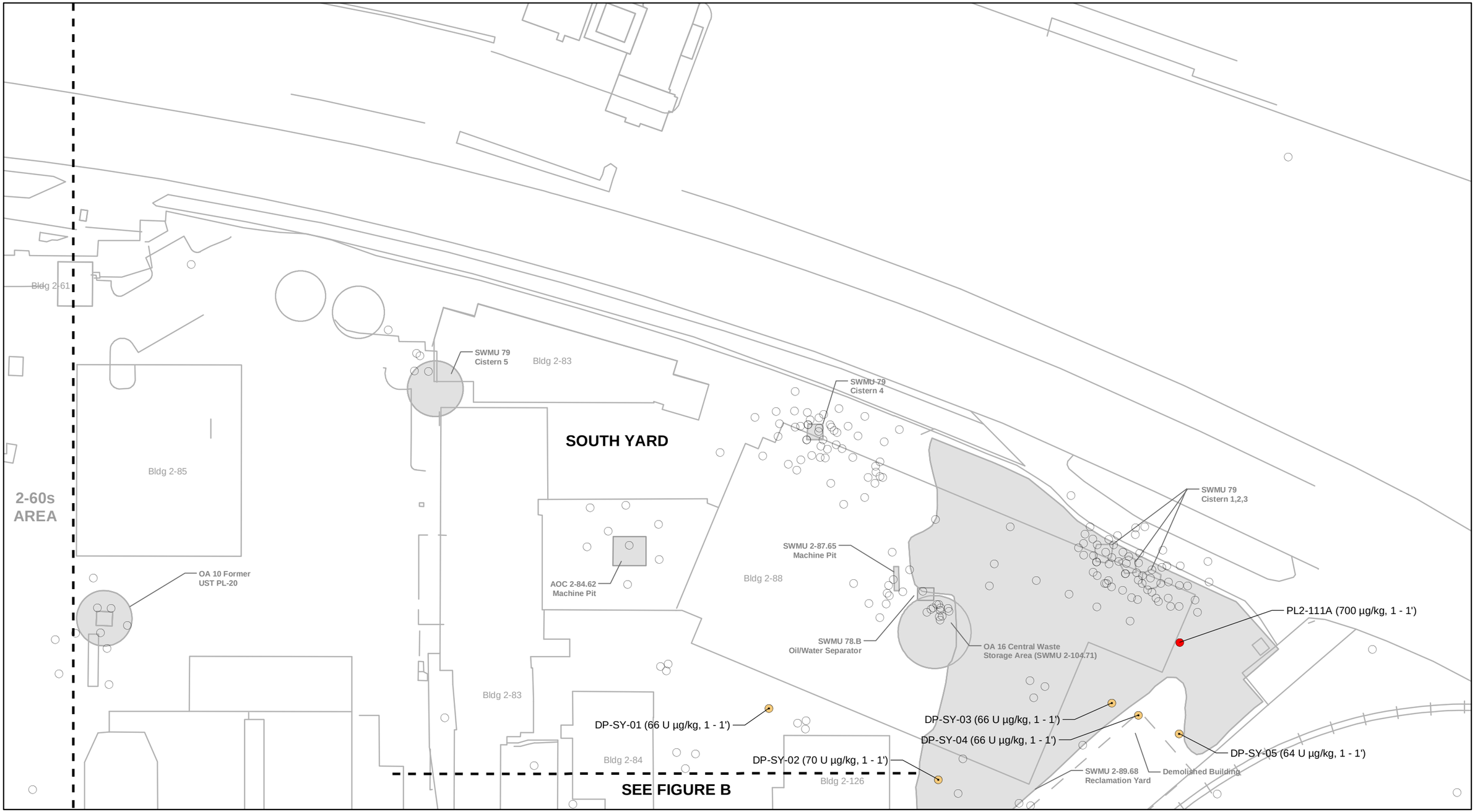
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
DIBENZ(A,H)ANTHRACENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_DIBENZ_AHANTHRACENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1,570 µg/kg
Proposed Media Cleanup Level (PMCL) = 350 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BIS(2-ETHYLHEXYL)PHTHALATE
IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_BIS2ETHYLHEXLSY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

DP-SY-02 (70 U µg/kg, 1 - 1')

SWMU 2-89.68
Reclamation Yard

DP-SY-08 (65 U µg/kg, 1 - 1')

DP-SY-06 (100 µg/kg, 1 - 1')

Bldg 2-117

Demolished Building

DP-SY-09 (66 U µg/kg, 1 - 1')

Bldg 2-80

DP-SY-07 (63 U µg/kg, 1 - 1')

AOC 2-86.63
Wet Paint Booth

SB-08904 (65 U µg/kg, 1 - 1')

288-12 (58 U µg/kg, 0.5 - 0.5')

SB-08917 (68 U µg/kg, 1 - 1')

288-11 (59 U µg/kg, 0.5 - 0.5')

1,570

288-5 (180 µg/kg, 1 - 1')

288-6 (4200 µg/kg, 1 - 1')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

1,570

Bldg 2- 81

SB-08602 (62 U µg/kg, 1 - 1')

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-28201 (63 U µg/kg, 1 - 1')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

SS-09103 (69 U µg/kg, 0 - 0.5')

SS-09104 (10000 Y µg/kg, 0 - 0.5')

SS-09110 (64 U µg/kg, 0 - 0.5')

SS-09106 (67 U µg/kg, 0 - 0.5')

SS-09105 (8000 µg/kg, 0 - 0.5')

SS-09107 (4000 U µg/kg, 0 - 0.5')

SS-09108 (430 U µg/kg, 0 - 0.5')

SS-09112 (11000 U µg/kg, 0 - 0.5')

SS-09111 (61 U µg/kg, 0 - 0.5')

SS-09102 (4600 µg/kg, 0 - 0.5')

SS-09101 (2300 U µg/kg, 0 - 0.5')

1,570

SS-09109 (64 U µg/kg, 0 - 0.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1,570 µg/kg
Proposed Media Cleanup Level (PMCL) = 350 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

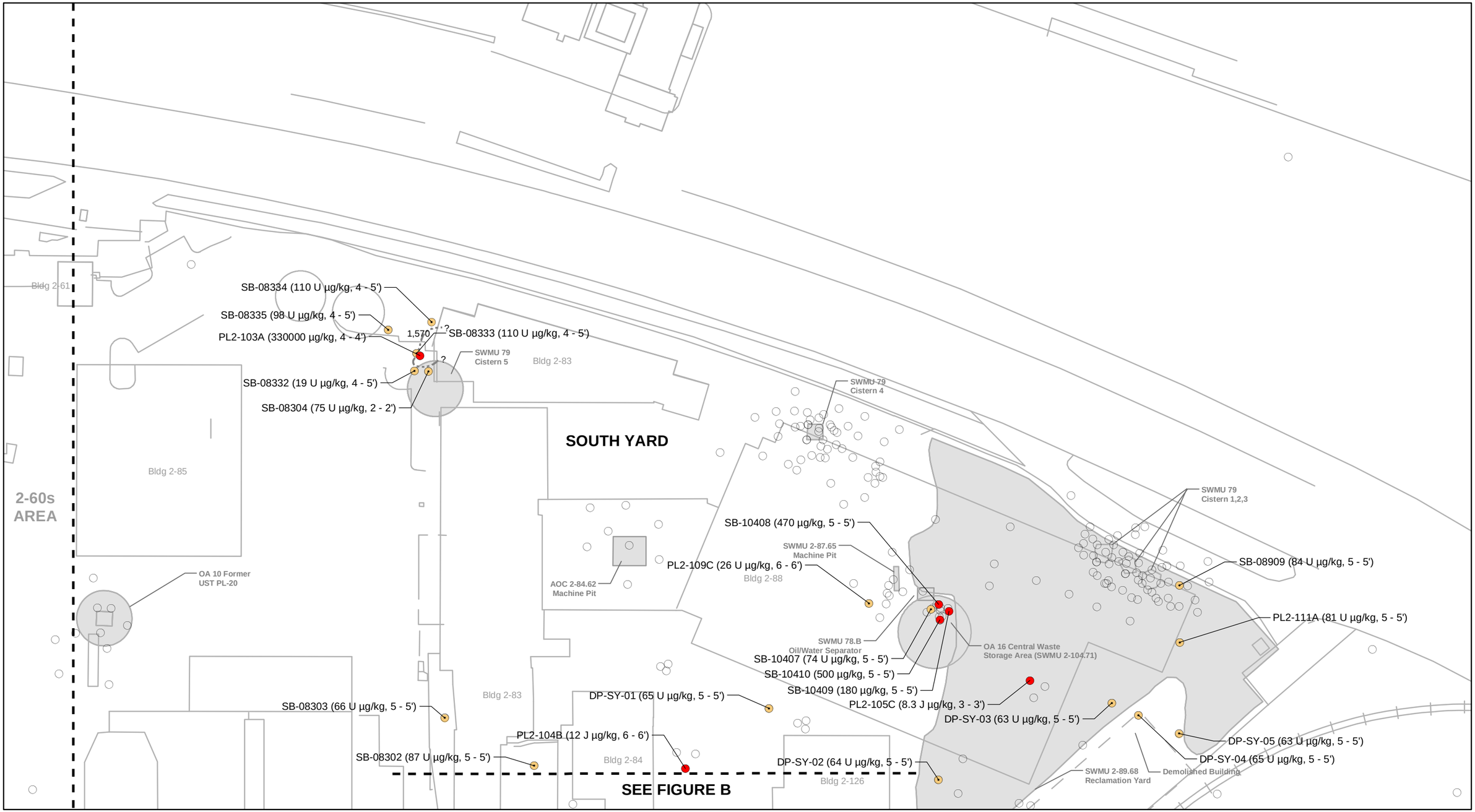
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BIS(2-ETHYLHEXYL)PHTHALATE
IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_BIS2ETHYLHEXLSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1,570 µg/kg
Proposed Media Cleanup Level (PMCL) = 350 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

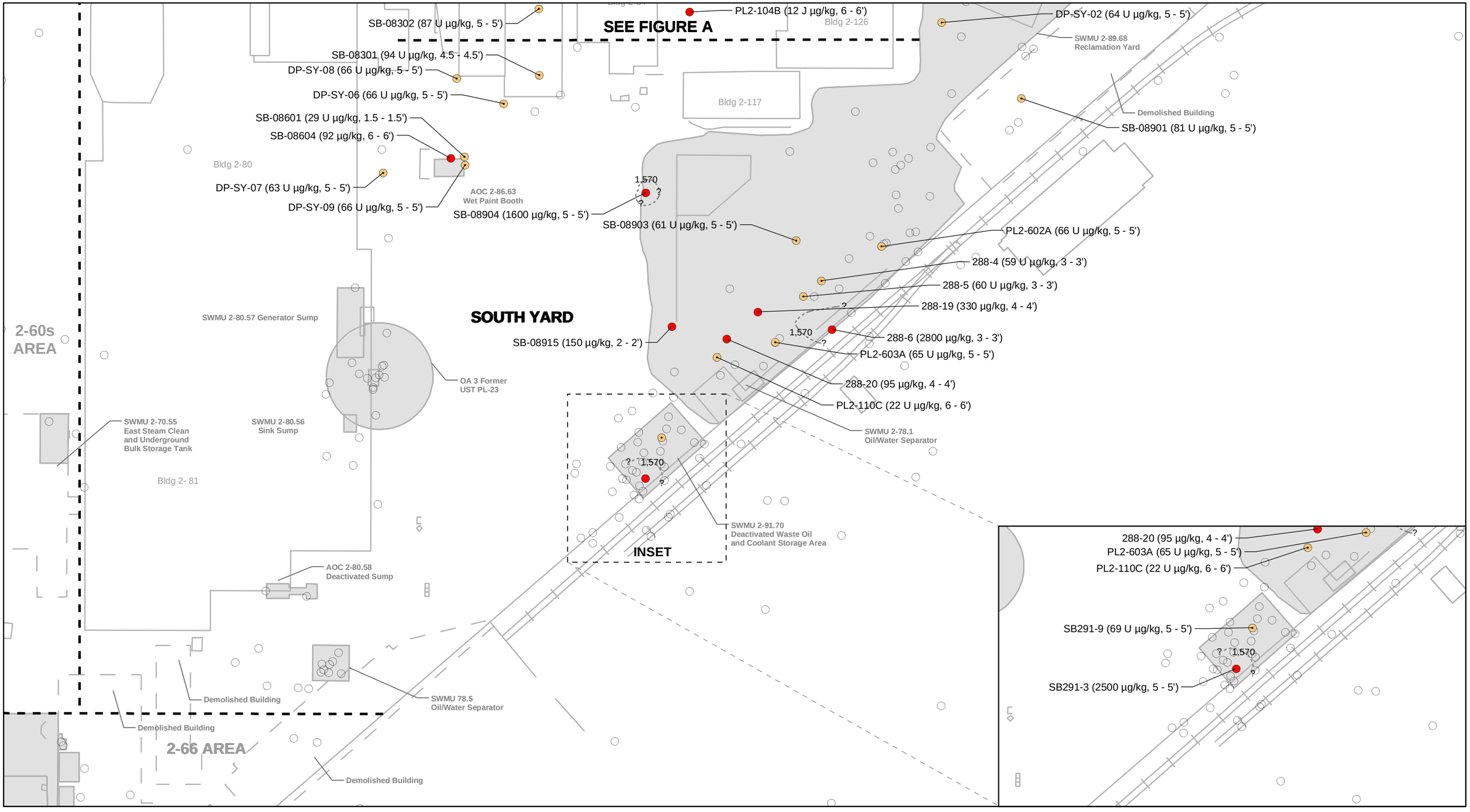
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BIS(2-ETHYLHEXYL)PHTHALATE
IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_BIS2ETHYLHEXLSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1,570 µg/kg
Proposed Media Cleanup Level (PMCL) = 350 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

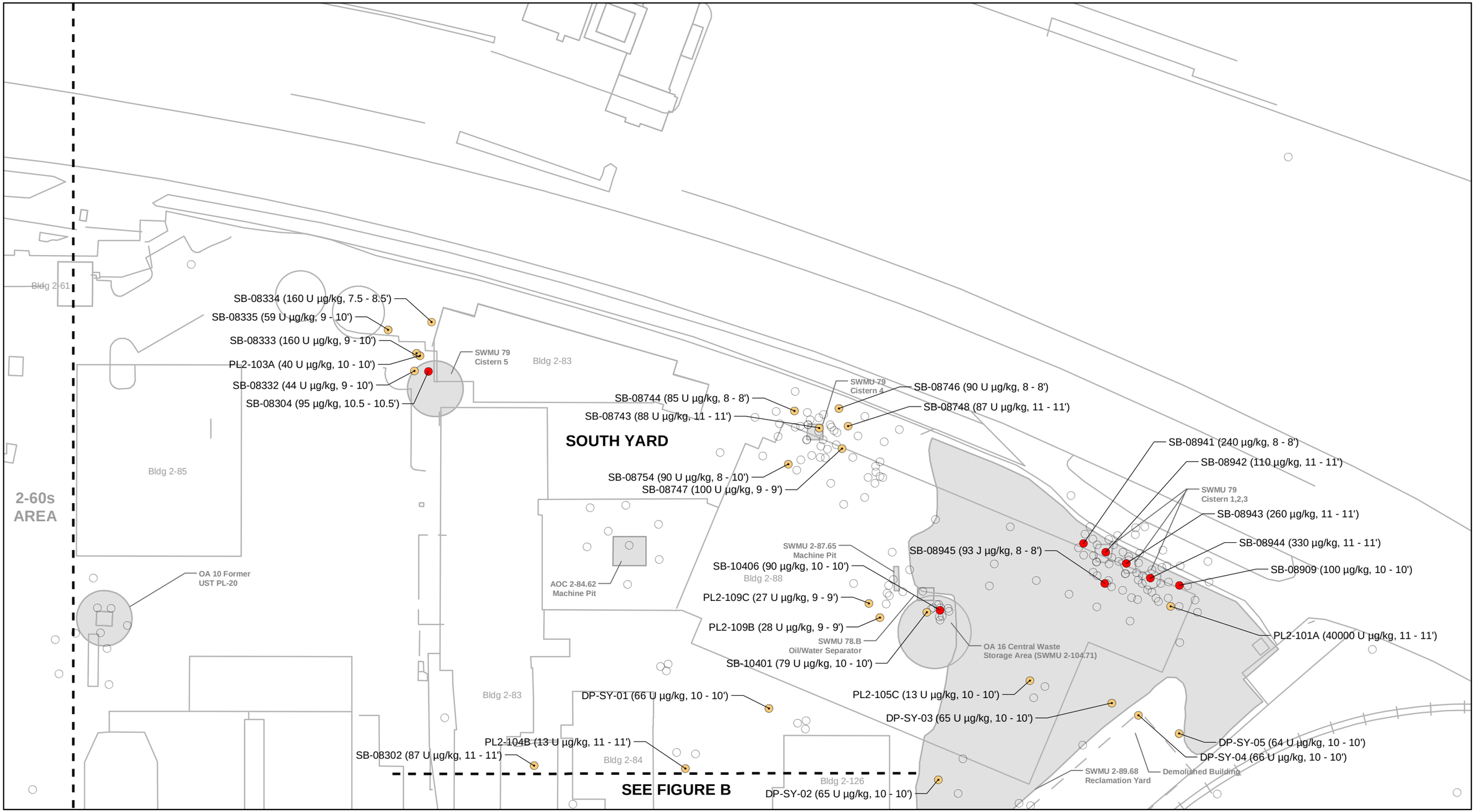
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BIS(2-ETHYLHEXYL)PHTHALATE
IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_BIS2ETHYLHEXLSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1,570 µg/kg
Proposed Media Cleanup Level (PMCL) = 350 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BIS(2-ETHYLHEXYL)PHTHALATE
IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_BIS2ETHYLHEXLSY3A.mxd

Golder Associates

SEE FIGURE A

SB-08302 (87 U µg/kg, 11 - 11')
SB-08301 (87 U µg/kg, 11.5 - 11.5')
DP-SY-08 (64 U µg/kg, 10 - 10')
DP-SY-06 (65 U µg/kg, 10 - 10')
SB-08601 (35 U µg/kg, 7 - 7')
SB-08604 (89 U µg/kg, 9 - 9')
DP-SY-07 (64 U µg/kg, 10 - 10')
DP-SY-09 (65 U µg/kg, 10 - 10')
PL2-104B (13 U µg/kg, 11 - 11')
DP-SY-02 (65 U µg/kg, 10 - 10')
SB-08901 (80 U µg/kg, 7.5 - 7.5')
PL2-106C (14 U µg/kg, 7 - 7')
PL2-602A (64 U µg/kg, 10 - 10')
SB-08917 (170 µg/kg, 7.5 - 7.5')
SB-08915 (92 U µg/kg, 7.5 - 7.5')
PL2-603A (64 U µg/kg, 10 - 10')
PL2-110C (8.1 J µg/kg, 9 - 9')
SB-08201 (100 B µg/kg, 11 - 11')

Bldg 2-80
Bldg 2-126
Bldg 2-117
Bldg 2- 81

AOC 2-86.63
Wet Paint Booth

SWMU 2-89.68
Reclamation Yard

Demolished Building

SOUTH YARD

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

Demolished Building

PL2-603A (64 U µg/kg, 10 - 10')
PL2-110C (8.1 J µg/kg, 9 - 9')
SB291-6 (170 µg/kg, 2.5 - 7.5')
SB291-3 (110 µg/kg, 9.5 - 9.5')
PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 1,570 µg/kg
Proposed Media Cleanup Level (PMCL) = 350 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

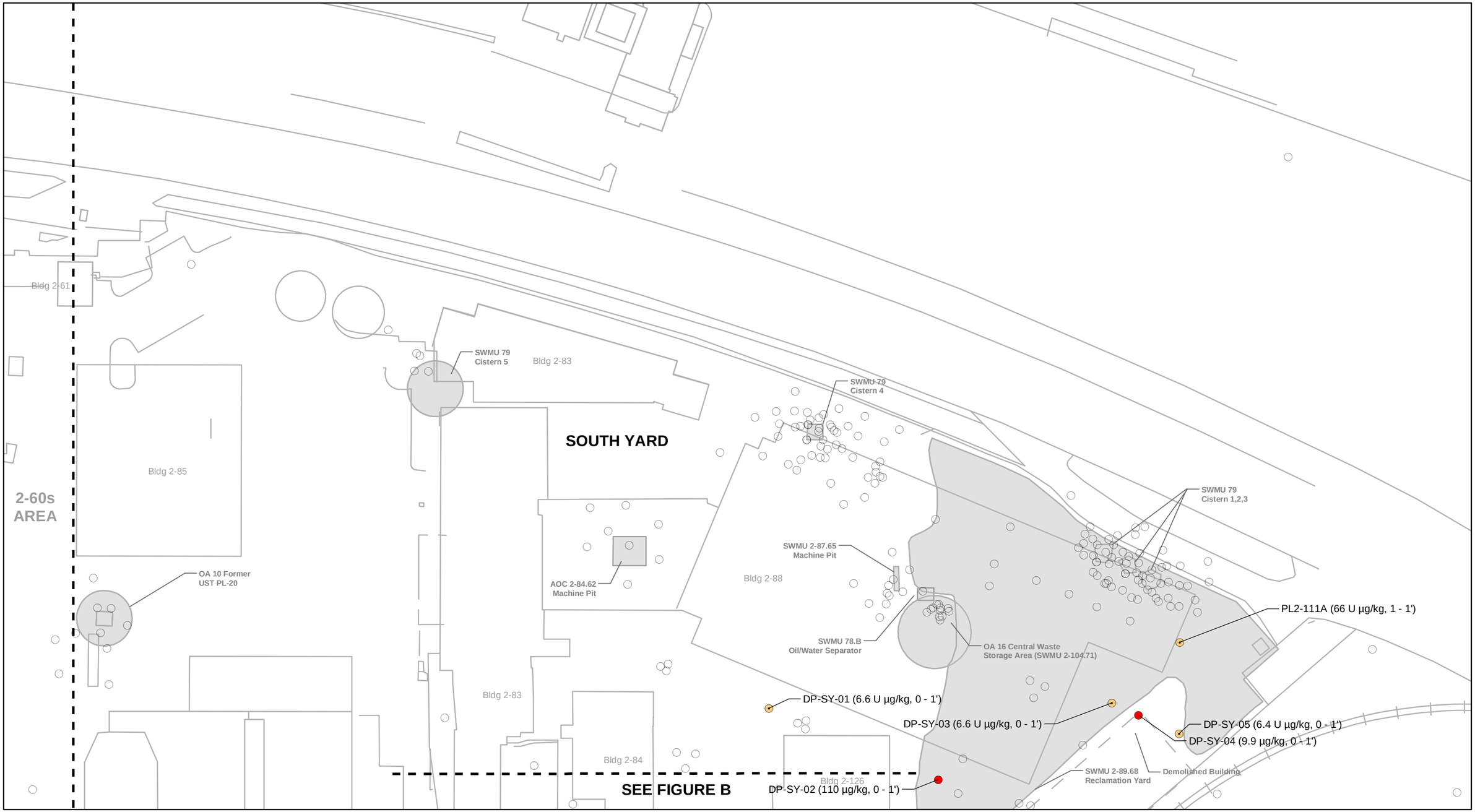
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BIS(2-ETHYLHEXYL)PHTHALATE
IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_BIS2ETHYLHEXLSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 406 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

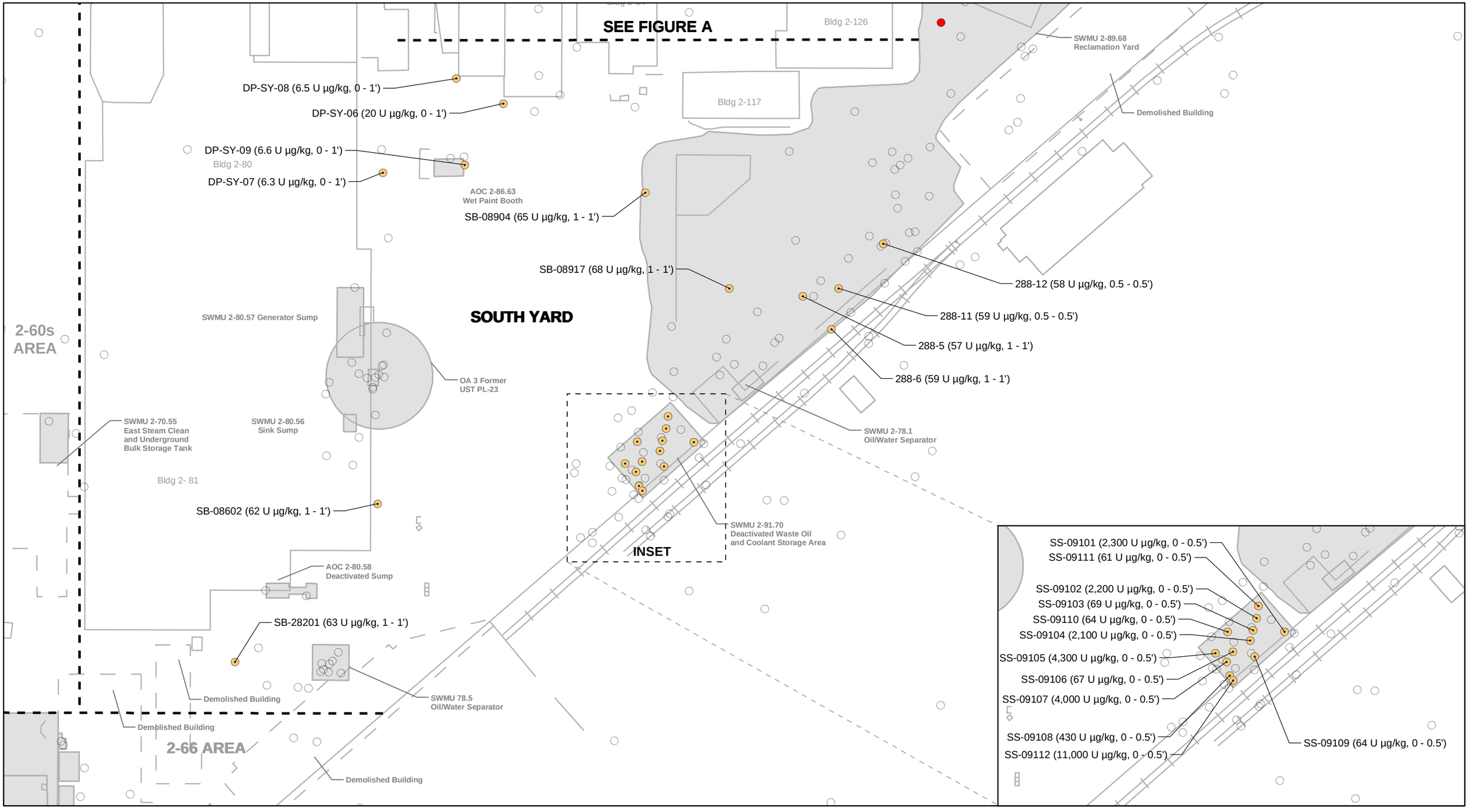
INDENO(1,2,3-CD)PYRENE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_INDENOPYRENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 406 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

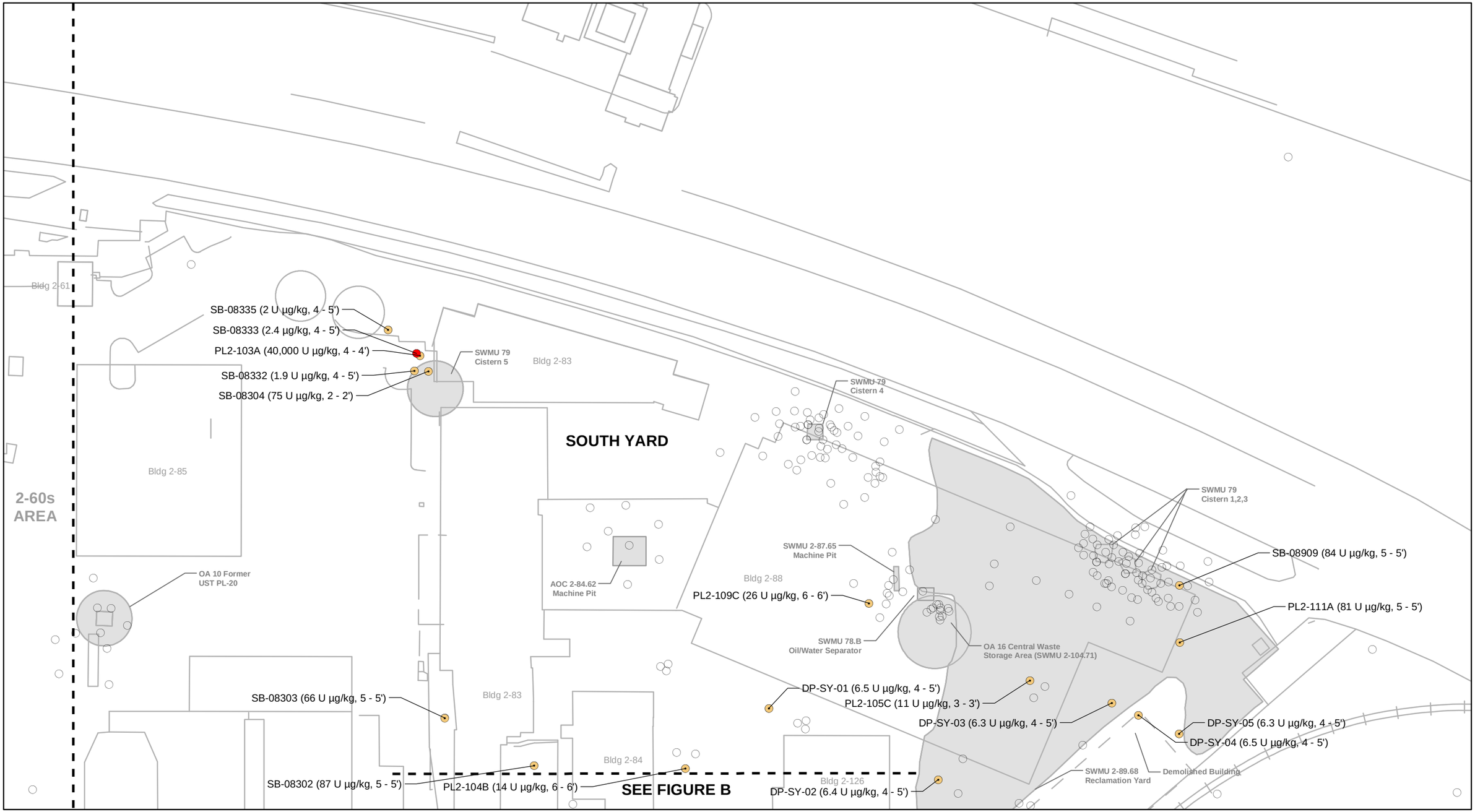
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
INDENO(1,2,3-CD)PYRENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_INDENOPYRENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 406 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

INDENO(1,2,3-CD)PYRENE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_INDENOPYRENESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08901 (81 U µg/kg, 5 - 5')

Bldg 2-117

DP-SY-08 (6.6 U µg/kg, 4 - 5')

SB-08301 (94 U µg/kg, 4.5 - 4.5')

DP-SY-06 (6.6 U µg/kg, 4 - 5')

SB-08601 (29 U µg/kg, 1.5 - 1.5')

SB-08604 (88 U µg/kg, 6 - 6')

Bldg 2-80

DP-SY-07 (6.3 U µg/kg, 4 - 5')

DP-SY-09 (6.6 U µg/kg, 4 - 5')

AOC 2-86.63
Wet Paint Booth

SB-08904 (68 U µg/kg, 5 - 5')

SB-08903 (61 U µg/kg, 5 - 5')

PL2-602A (6.6 U µg/kg, 3.5 - 5')

288-4 (59 U µg/kg, 3 - 3')

288-20 (97 µg/kg, 4 - 4')

SB-08915 (75 U µg/kg, 2 - 2')

SOUTH YARD

288-5 (60 U µg/kg, 3 - 3')

PL2-110C (22 U µg/kg, 6 - 6')

406

288-6 (61 U µg/kg, 3 - 3')

288-19 (2,000 µg/kg, 4 - 4')

PL2-603A (45 µg/kg, 3.5 - 5')

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

288-20 (97 µg/kg, 4 - 4')

PL2-110C (22 U µg/kg, 6 - 6')

406

PL2-603A (45 µg/kg, 3.5 - 5')

SB291-9 (69 U µg/kg, 5 - 5')

SB291-3 (340 U µg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 406 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

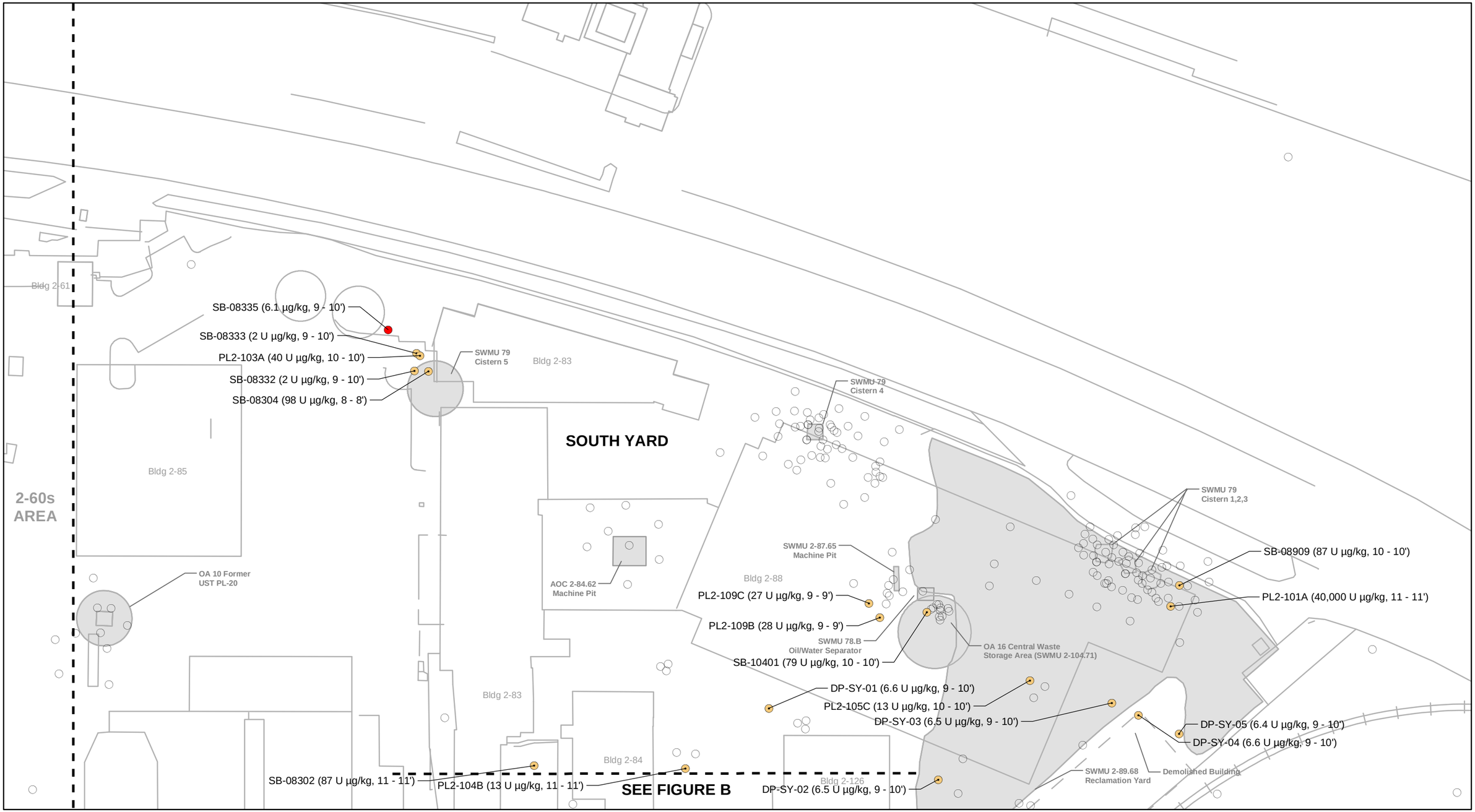
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
INDENO(1,2,3-CD)PYRENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_INDENOPYRENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 406 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
INDENO(1,2,3-CD)PYRENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_INDENOPYRENESY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

SB-08901 (80 U µg/kg, 7.5 - 7.5')

DP-SY-08 (6.4 U µg/kg, 9 - 10')

SB-08301 (87 U µg/kg, 11.5 - 11.5')

SB-08601 (35 U µg/kg, 7 - 7')

SB-08604 (89 U µg/kg, 9 - 9')

Bldg 2-80

DP-SY-07 (6.4 U µg/kg, 9 - 10')

DP-SY-09 (6.5 U µg/kg, 9 - 10')

DP-SY-06 (6.5 U µg/kg, 9 - 10')

Bldg 2-117

AOC 2-86.63
Wet Paint Booth

PL2-106C (14 U µg/kg, 7 - 7')

SB-08917 (88 U µg/kg, 7.5 - 7.5')

PL2-602A (6.4 U µg/kg, 8.5 - 10')

SB-08915 (92 U µg/kg, 7.5 - 7.5')

SOUTH YARD

PL2-110C (13 U µg/kg, 9 - 9')

PL2-603A (6.4 U µg/kg, 8.5 - 10')

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (79 U µg/kg, 11 - 11')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-110C (13 U µg/kg, 9 - 9')

PL2-603A (6.4 U µg/kg, 8.5 - 10')

SB291-6 (66 U µg/kg, 2.5 - 7.5')

SB291-3 (70 U µg/kg, 9.5 - 9.5')

PL2-112A (73 U µg/kg, 10.5 - 10.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 406 µg/kg
Proposed Media Cleanup Level (PMCL) = 2.9 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

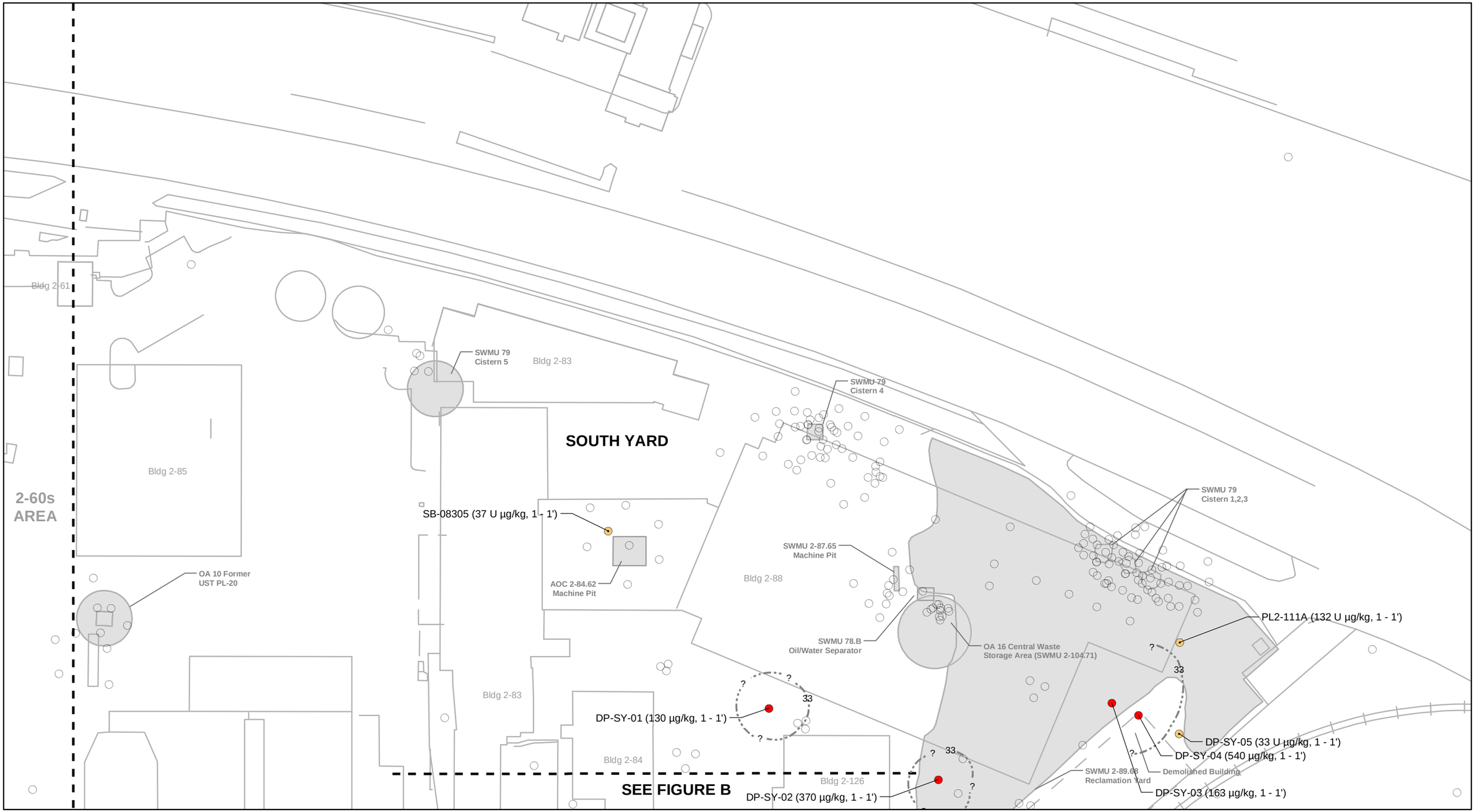
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
INDENO(1,2,3-CD)PYRENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_INDENOPYRENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 33 µg/kg
Proposed Media Cleanup Level (PMCL) = 33 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TOTAL PCBS IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_TOTALPCBSY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

DP-SY-02 (370 µg/kg, 1 - 1')

SWMU 2-89.68
Reclamation Yard

Demolished Building

DP-SY-08 (104 µg/kg, 1 - 1')

DP-SY-06 (307 J µg/kg, 1 - 1')

Bldg 2-117

Bldg 2-80

DP-SY-07 (33 U µg/kg, 1 - 1')

DP-SY-09 (33 U µg/kg, 1 - 1')

AOC 2-86.63
Wet Paint Booth

SB-08904 (130 U µg/kg, 1 - 1')

SB-08917 (68 U µg/kg, 1 - 1')

SB-08010 (36 U µg/kg, 0.5 - 0.5')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08009 (36 U µg/kg, 0.6 - 0.6')

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SB-08602 (125 U µg/kg, 1 - 1')

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-28201 (62.9 U µg/kg, 1 - 1')

Demolished Building

SWMU 78.5
Oil/Water Separator

DP-SY-10 (32 U µg/kg, 1 - 1')

Demolished Building

2-66 AREA

DP-SY-12 (33 U µg/kg, 1 - 1')

DP-SY-11 (33 U µg/kg, 1 - 1')

Demolished Building

SS-09103 (87 µg/kg, 0 - 0.5')

SB-09104 (72 U µg/kg, 1 - 1')

SS-09110 (79 J µg/kg, 0 - 0.5')

SS-09106 (80 UJ µg/kg, 0 - 0.5')

SS-09105 (211900 µg/kg, 0 - 0.5')

SS-09108 (5000 UI µg/kg, 0 - 0.5')

SS-09112 (5300 UI µg/kg, 0 - 0.5')

SB-09102 (71 U µg/kg, 1 - 1')

SS-09111 (74 J µg/kg, 0 - 0.5')

SS-09102 (6500 UI µg/kg, 0 - 0.5')

SS-09101 (400 UJ µg/kg, 0 - 0.5')

SS-09104 (6000 UI µg/kg, 0 - 0.5')

SS-09109 (62 U µg/kg, 0 - 0.5')

SS-09107 (4100 UI µg/kg, 0 - 0.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 33 µg/kg
Proposed Media Cleanup Level (PMCL) = 33 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

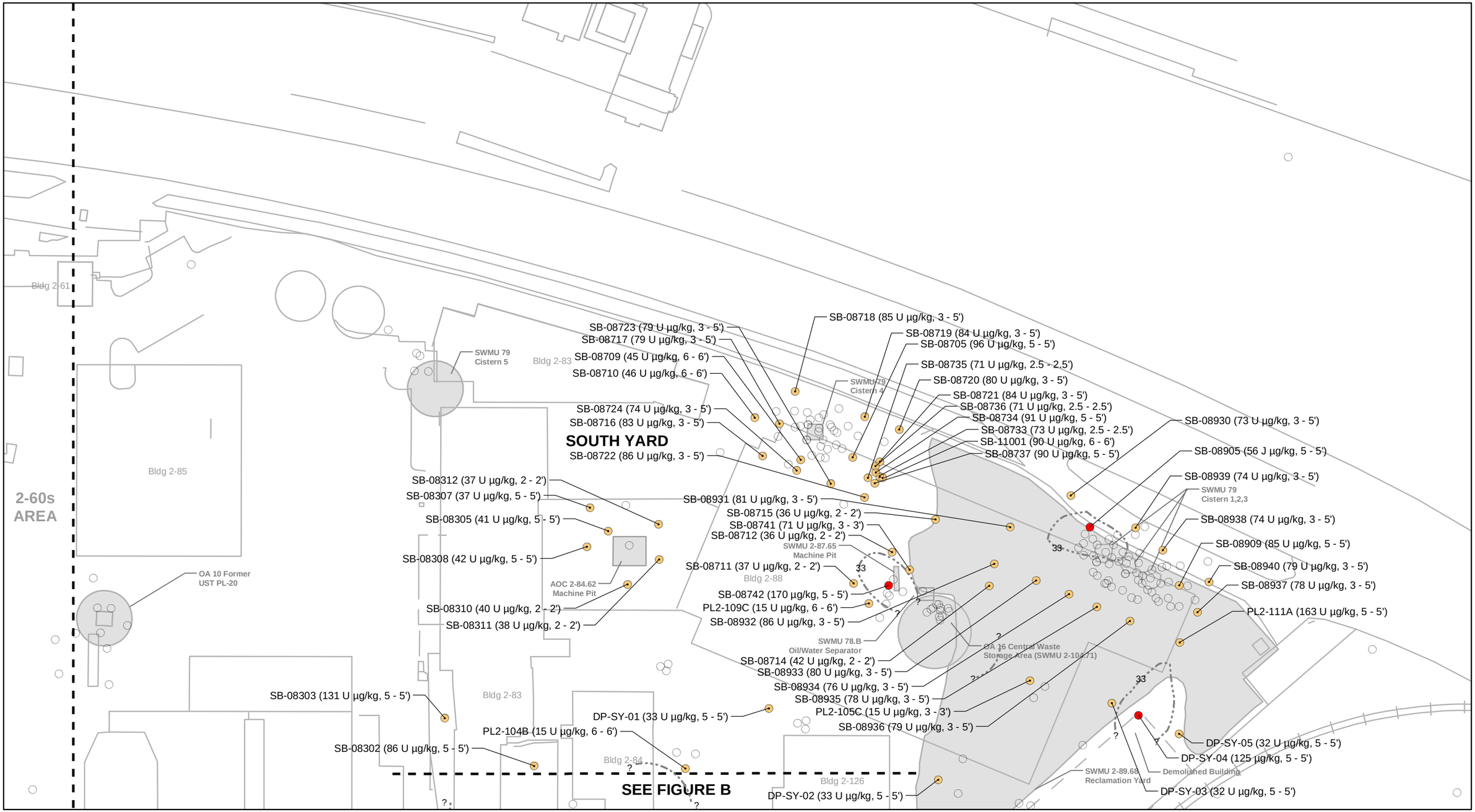
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TOTAL PCBS IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_TOTALPCBSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 33 µg/kg
Proposed Media Cleanup Level (PMCL) = 33 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

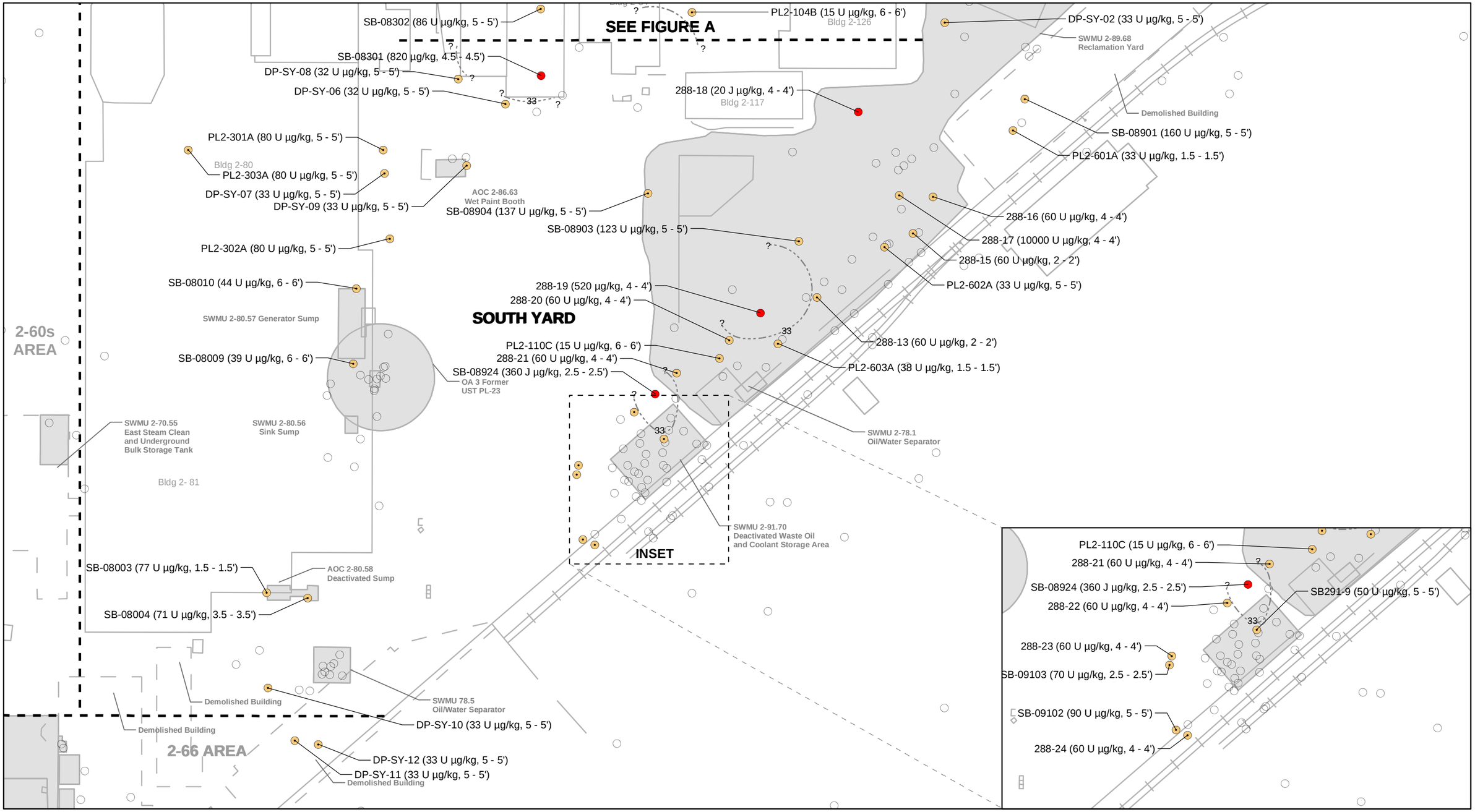
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TOTAL PCBS IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_TOTALPCBSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 33 µg/kg
Proposed Media Cleanup Level (PMCL) = 33 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

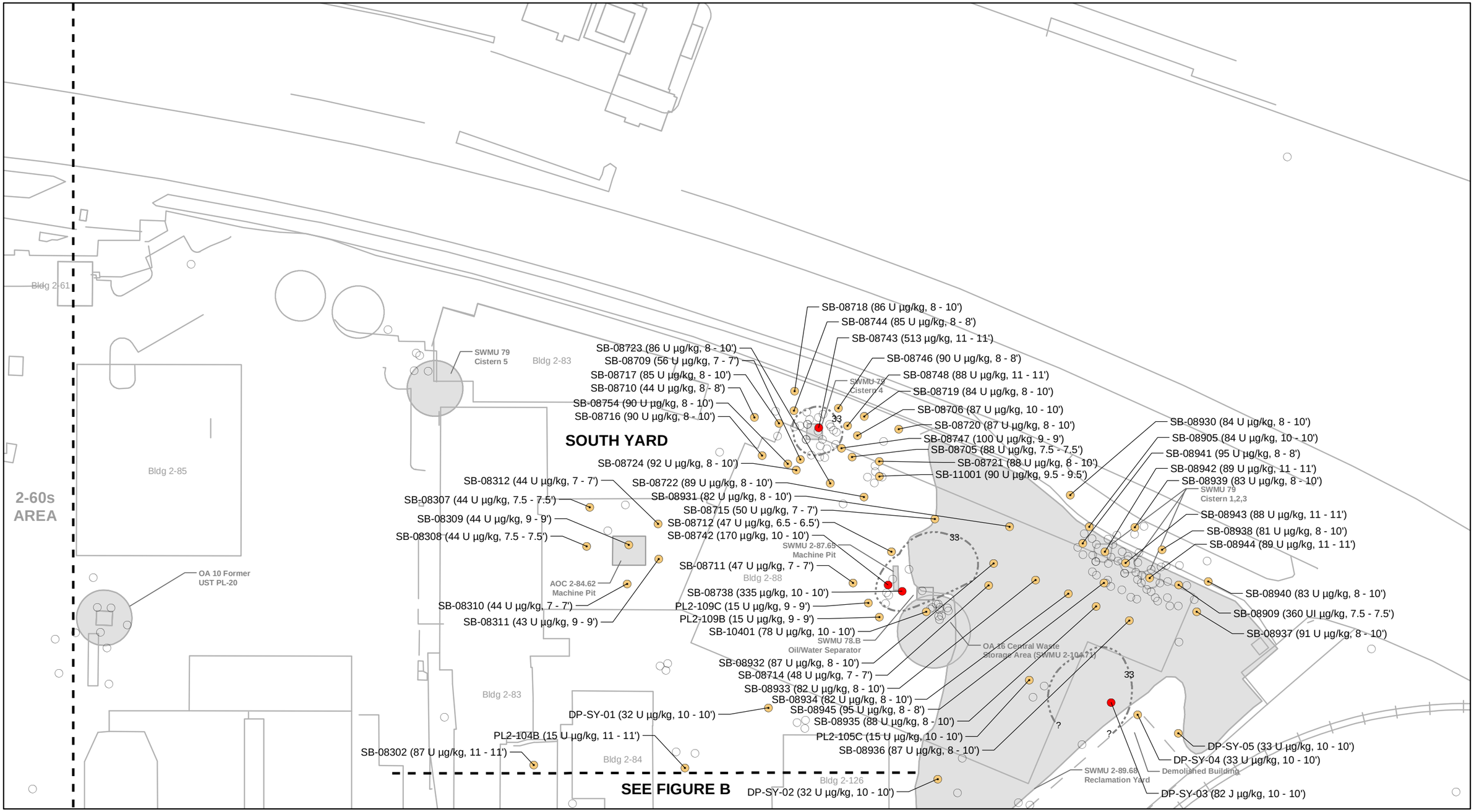
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TOTAL PCBS IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_TOTALPCBSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 33 µg/kg
Proposed Media Cleanup Level (PMCL) = 33 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

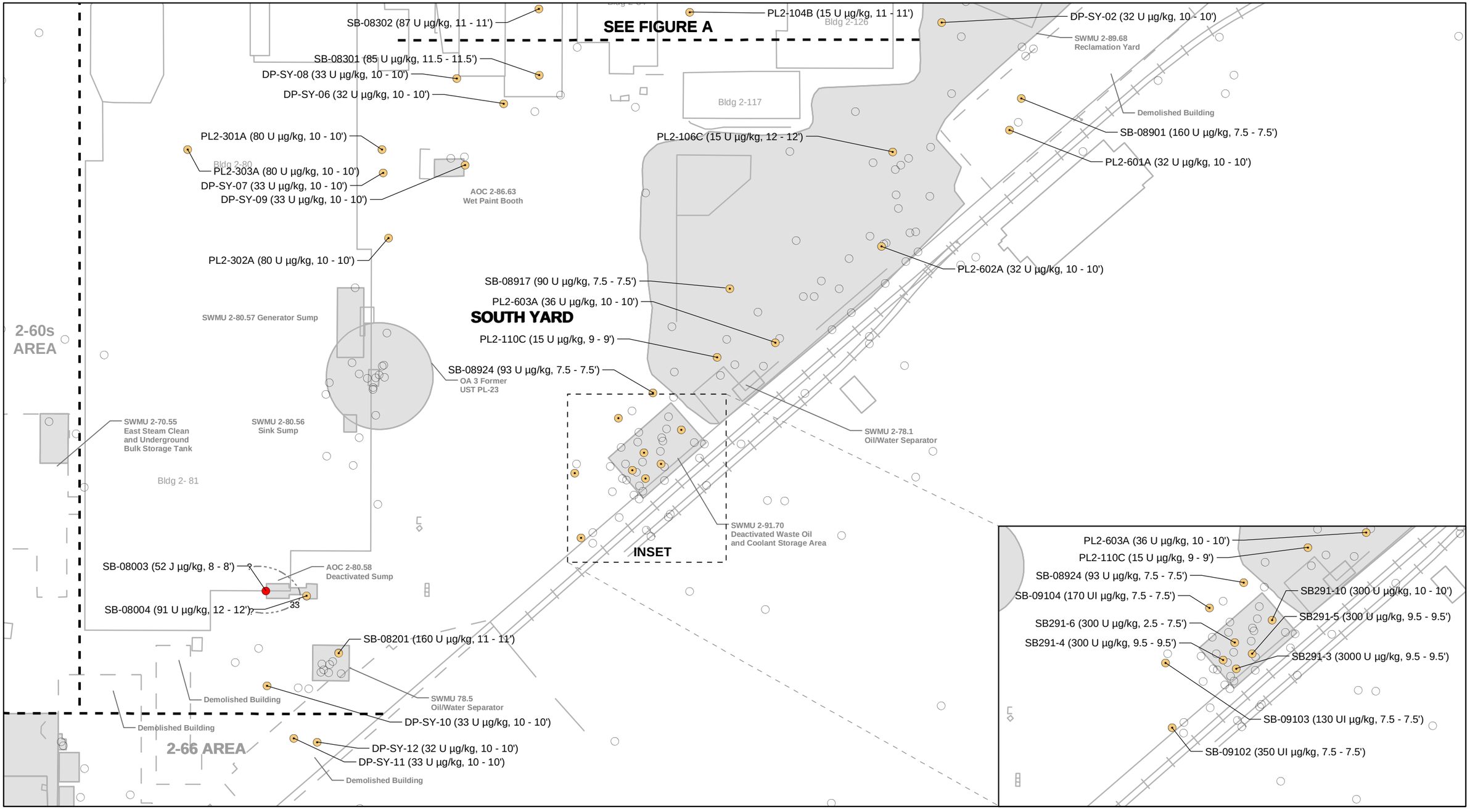
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TOTAL PCBS IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_TOTALPCBSY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 33 µg/kg
Proposed Media Cleanup Level (PMCL) = 33 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

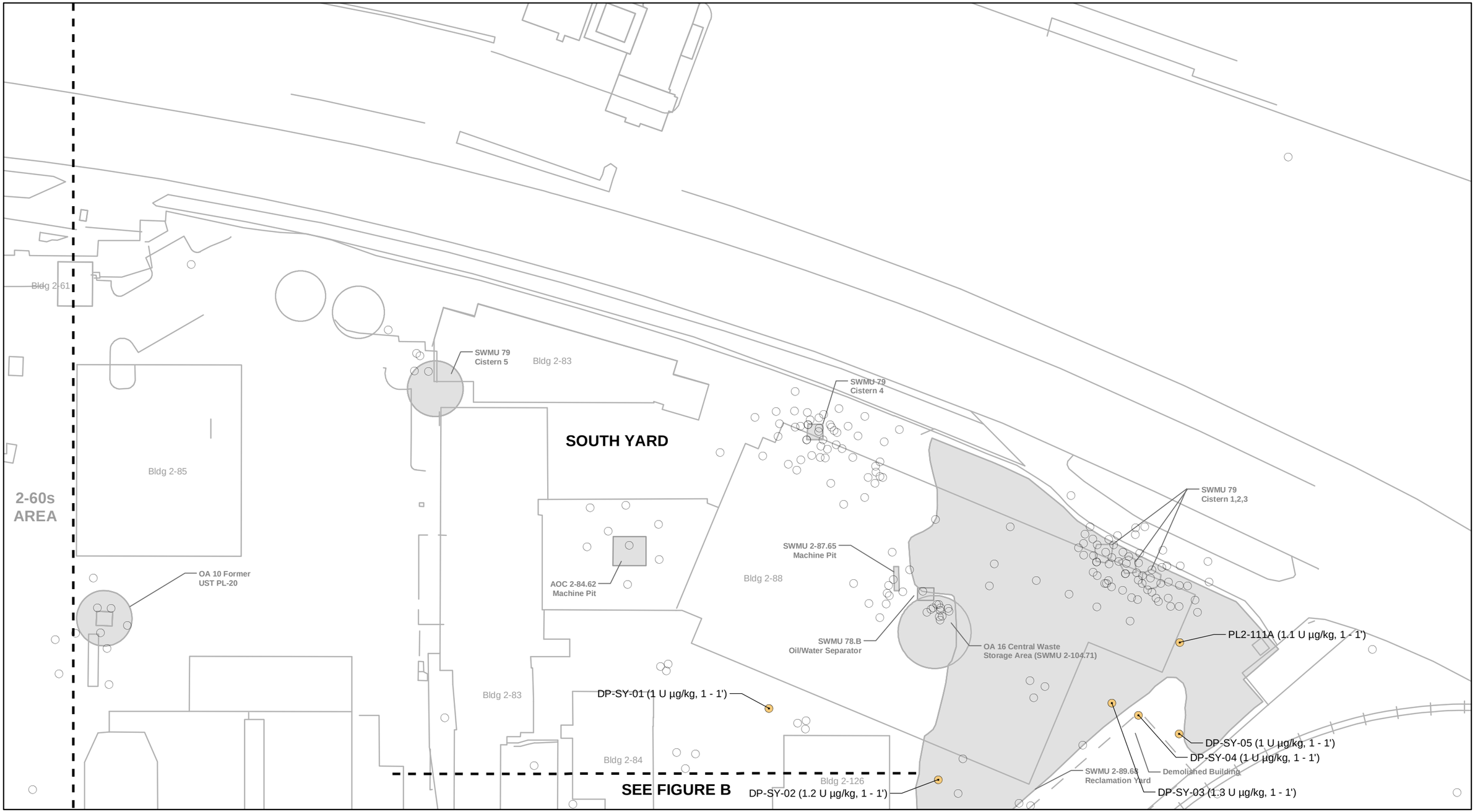
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TOTAL PCBS IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_TOTALPCBSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 25.3 µg/kg
Proposed Media Cleanup Level (PMCL) = 4,300 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

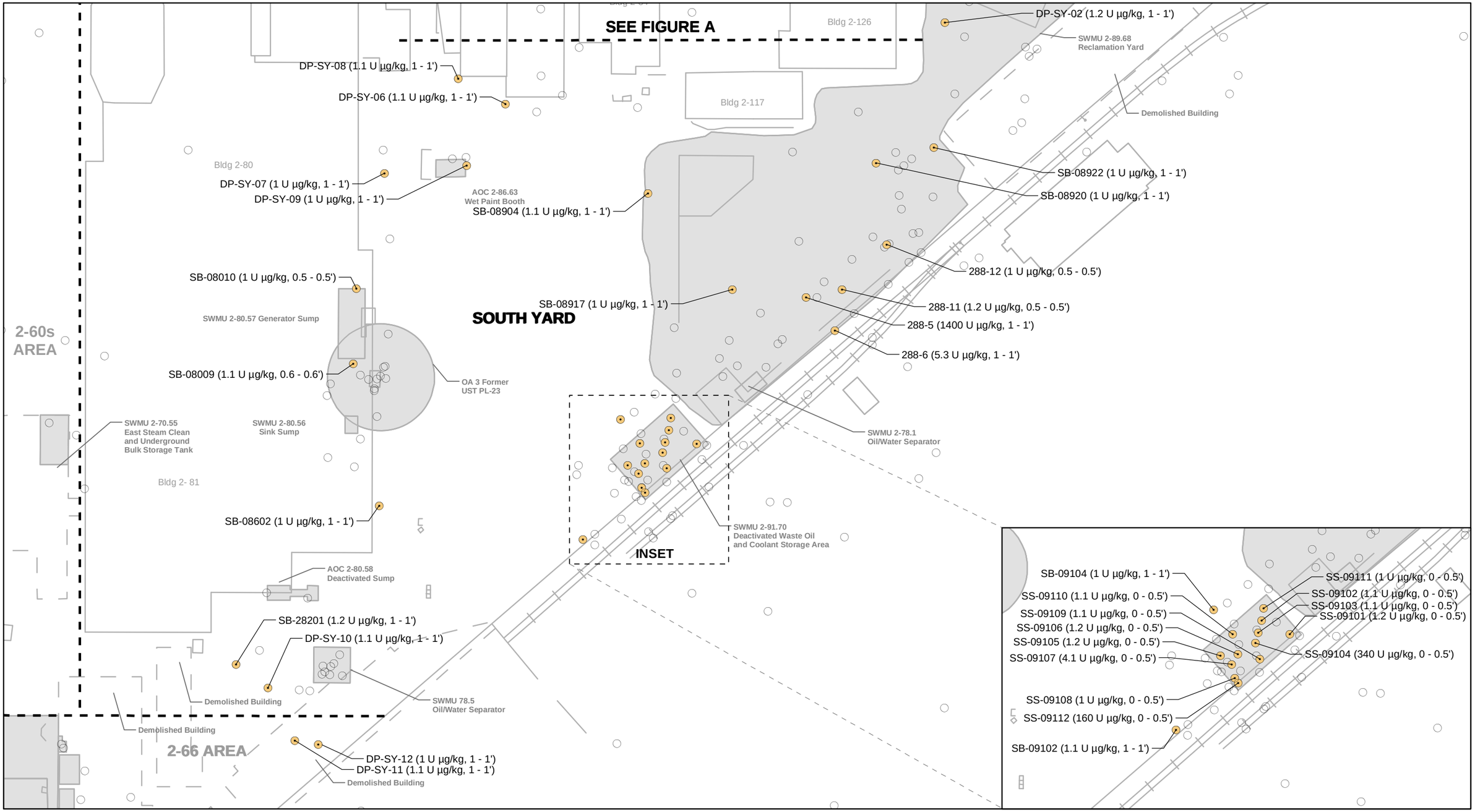
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_BENZENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 25.3 µg/kg
Proposed Media Cleanup Level (PMCL) = 4,300 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

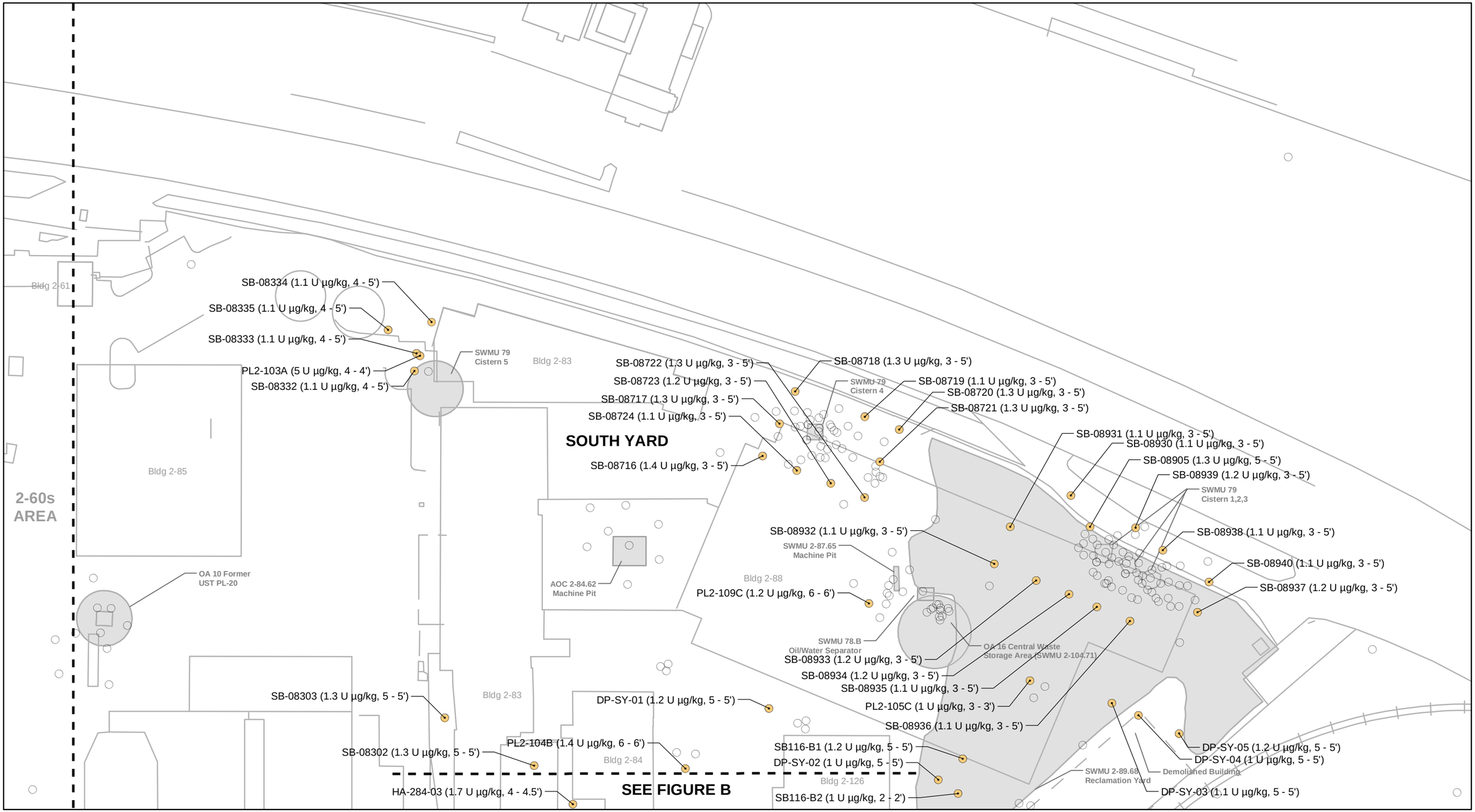
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_BENZENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 25.3 µg/kg
Proposed Media Cleanup Level (PMCL) = 4,300 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

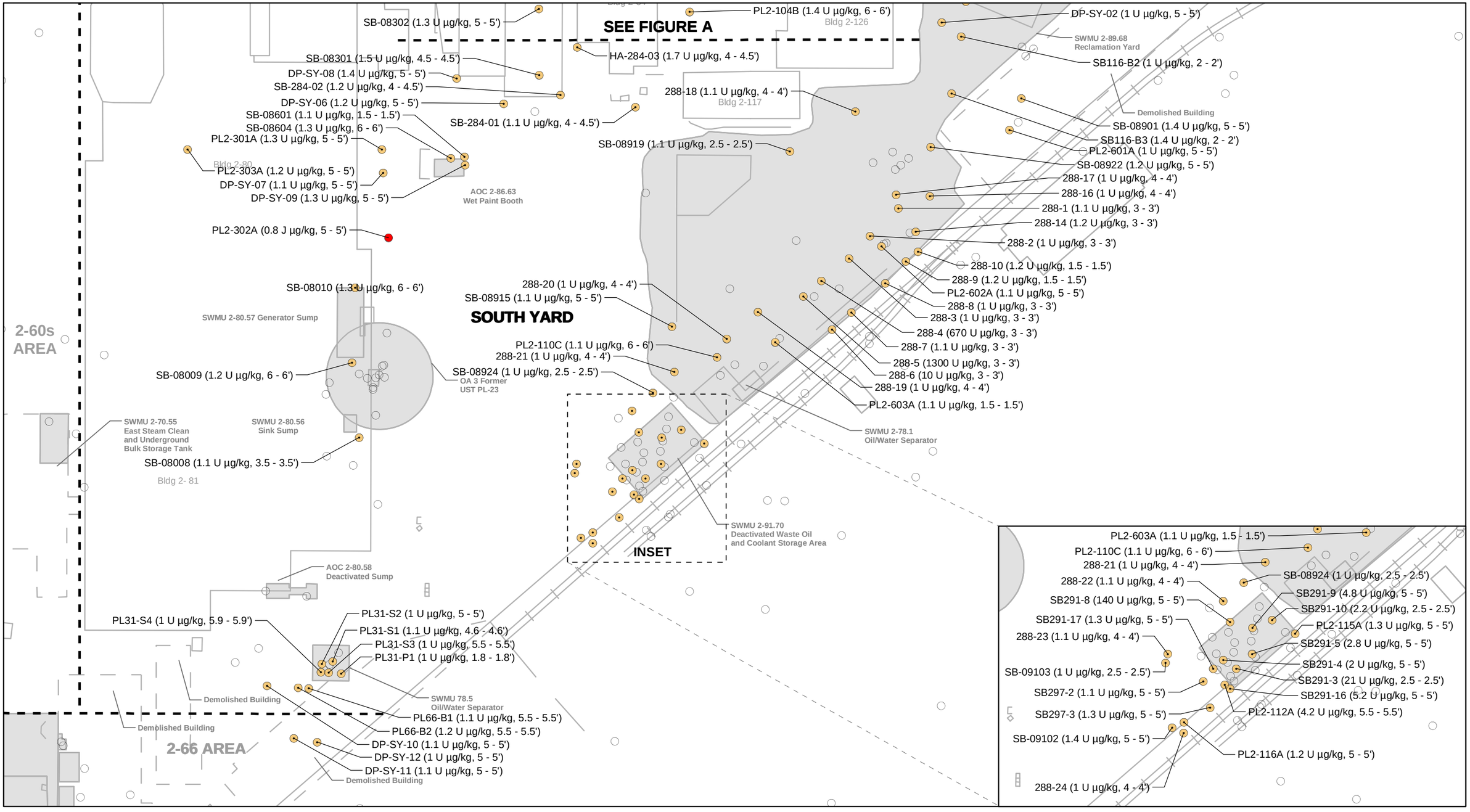
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_BENZENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 25.3 µg/kg
Proposed Media Cleanup Level (PMCL) = 4,300 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

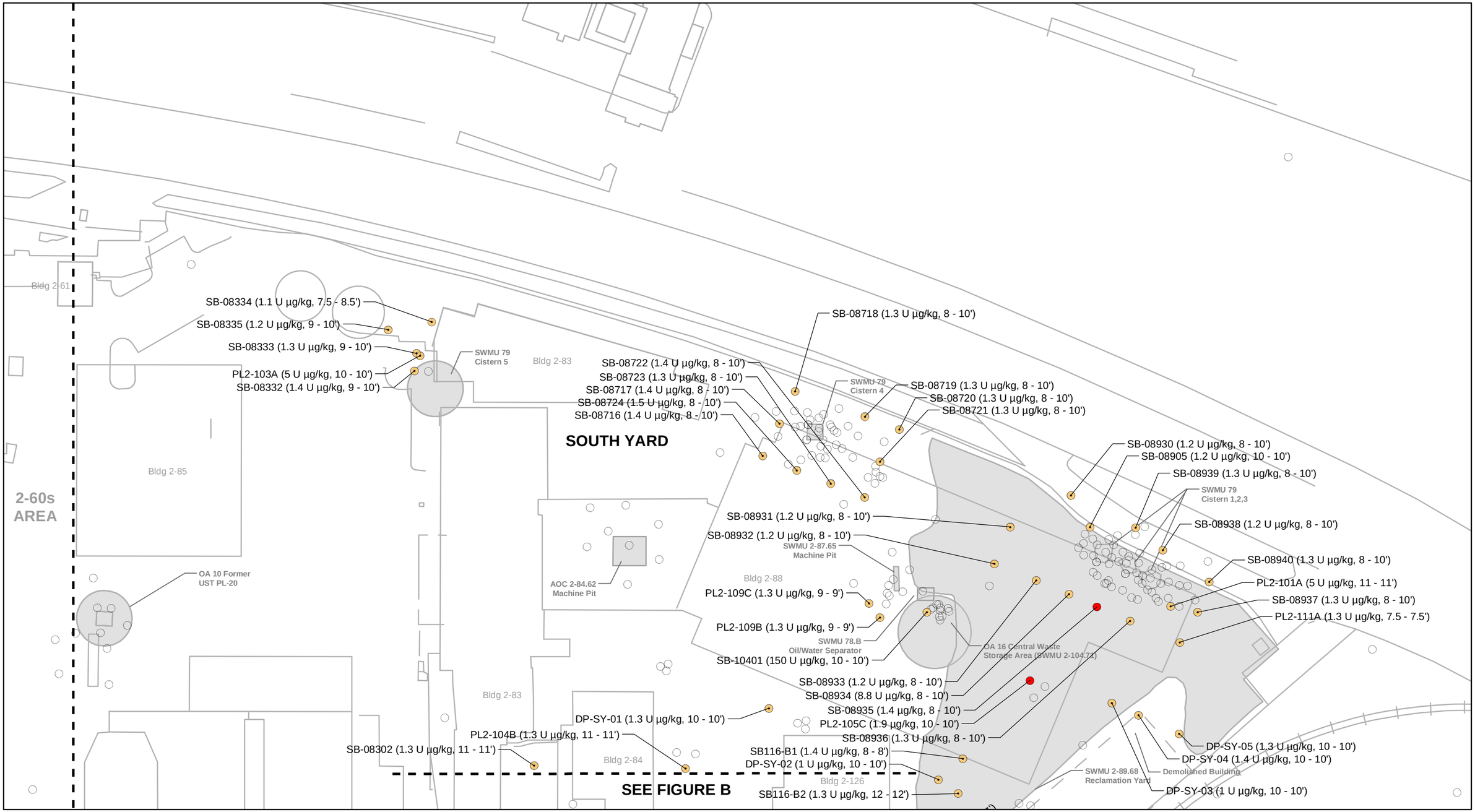
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_BENZENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 25.3 µg/kg
Proposed Media Cleanup Level (PMCL) = 4,300 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

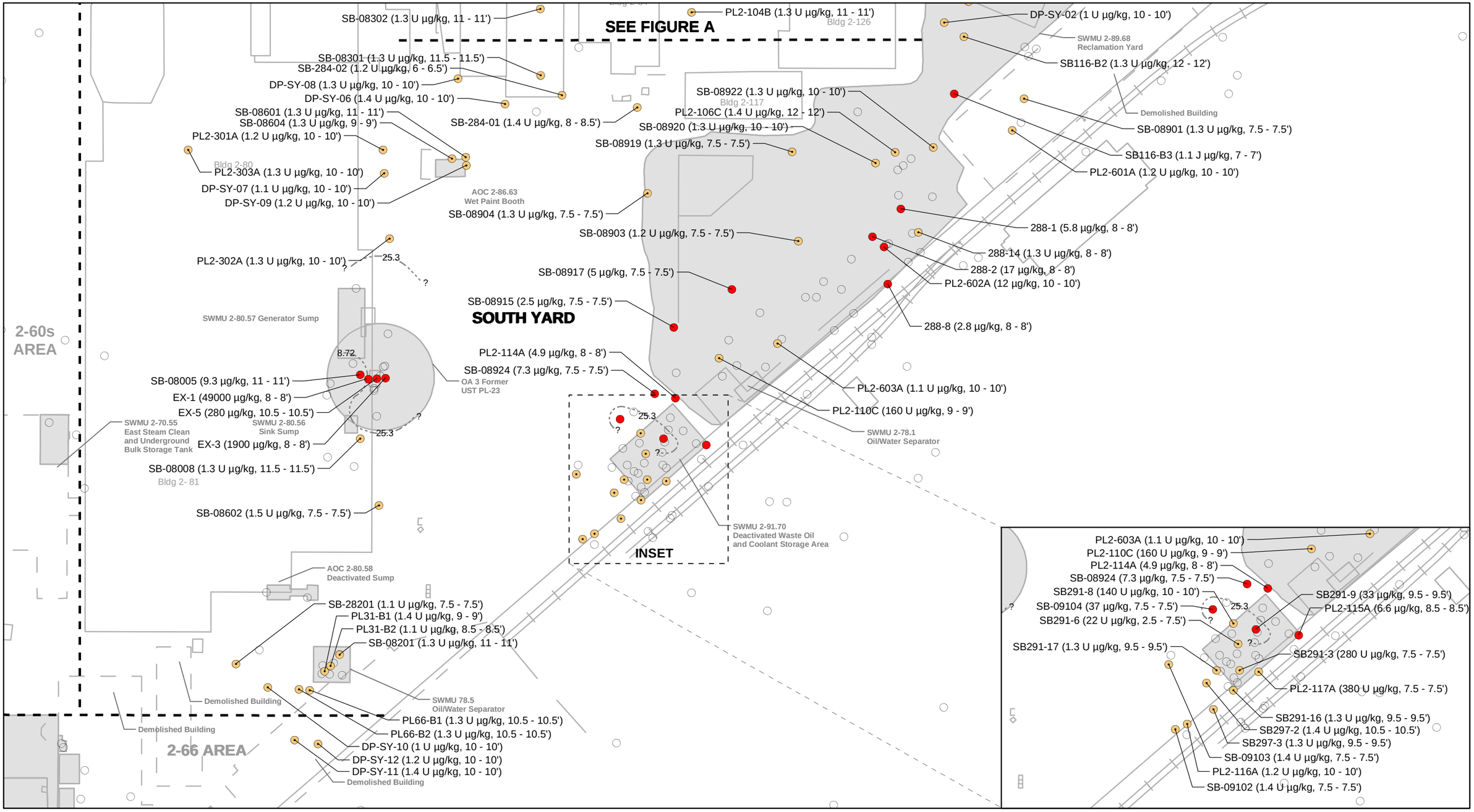
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
BENZENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_BENZENESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 25.3 µg/kg
Proposed Media Cleanup Level (PMCL) = 4,300 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

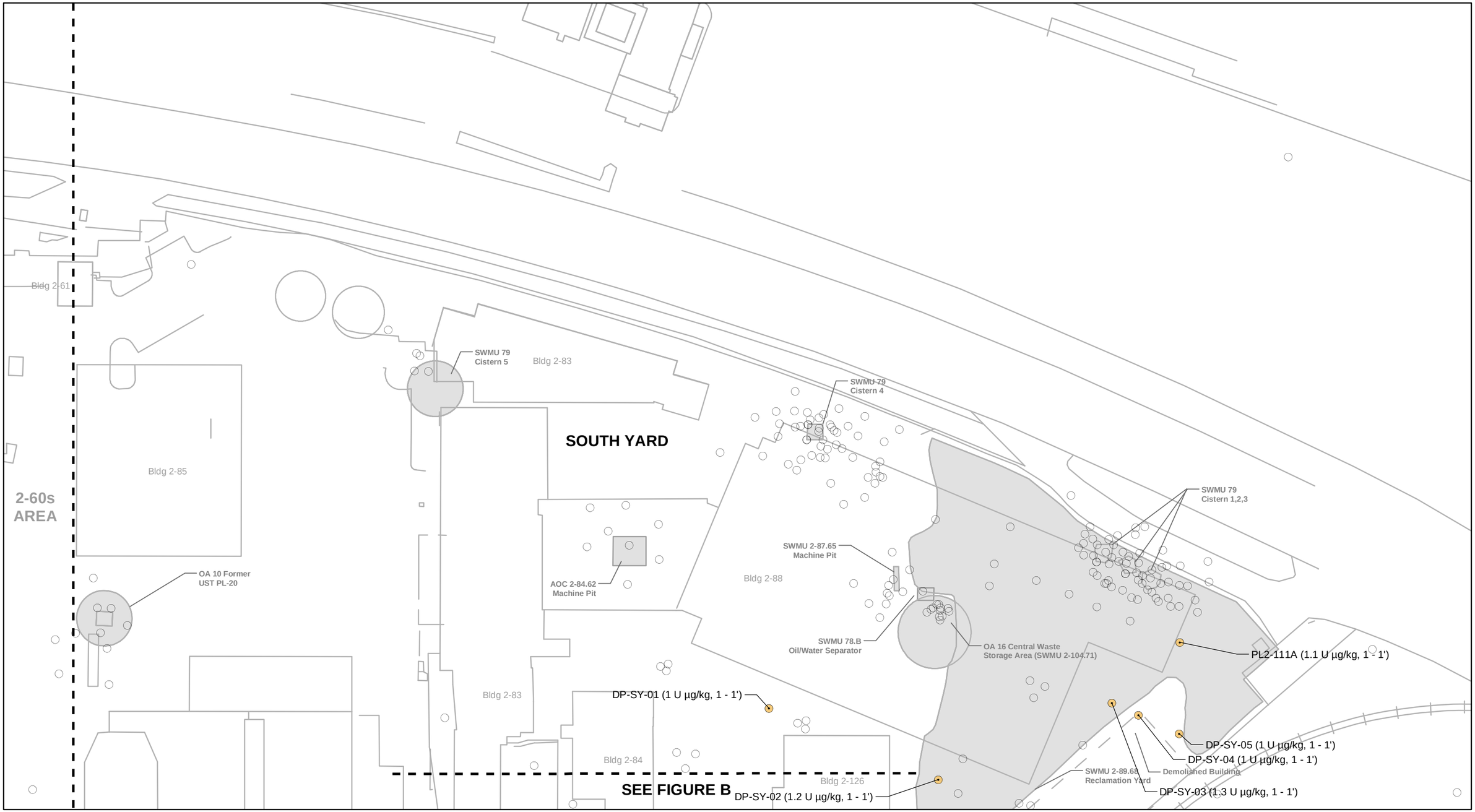
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
BENZENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_BENZENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2.73 µg/kg
Proposed Media Cleanup Level (PMCL) = 190 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

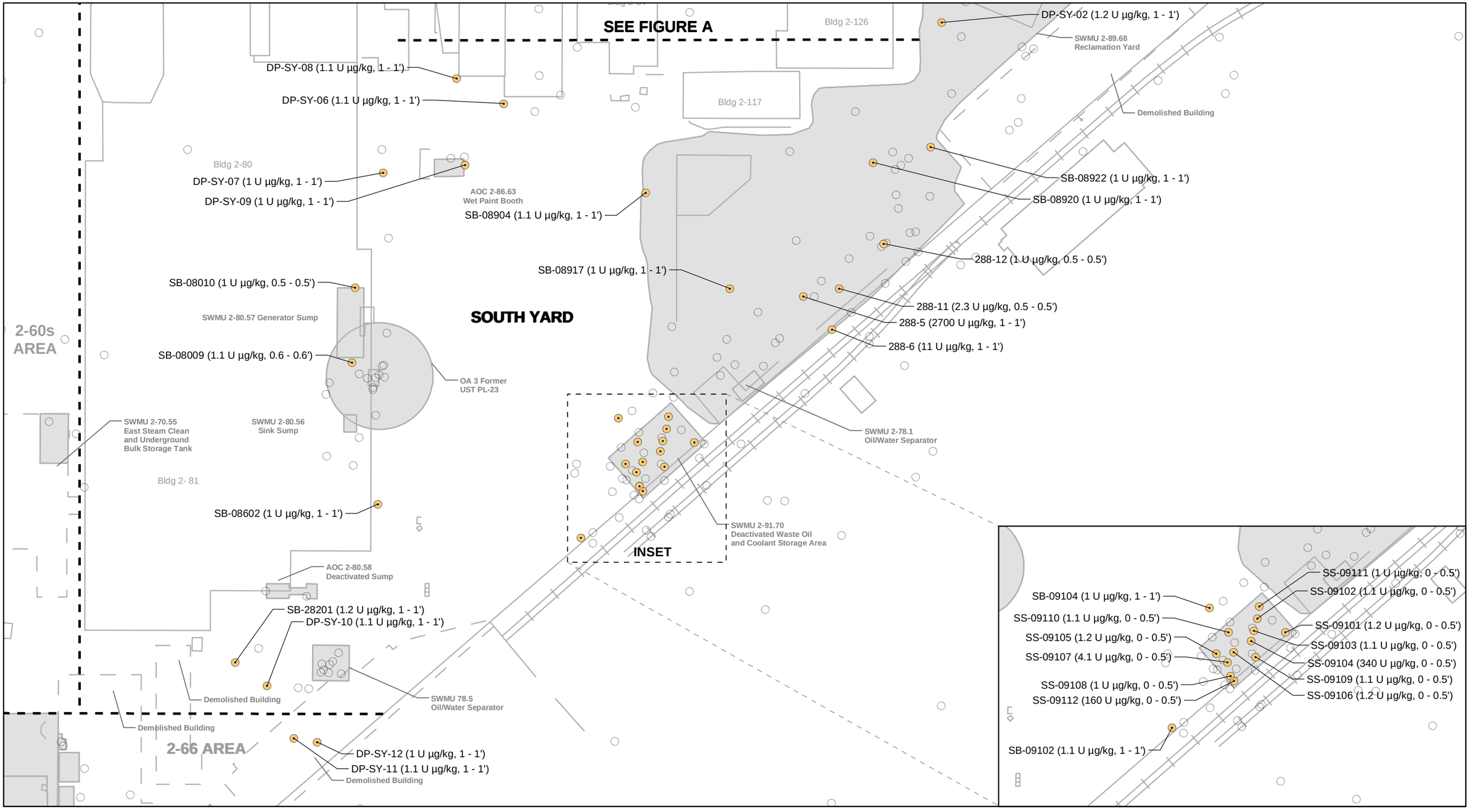
1,1-DICHLOROETHENE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_11DICHLOROETHENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2.73 µg/kg
Proposed Media Cleanup Level (PMCL) = 190 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

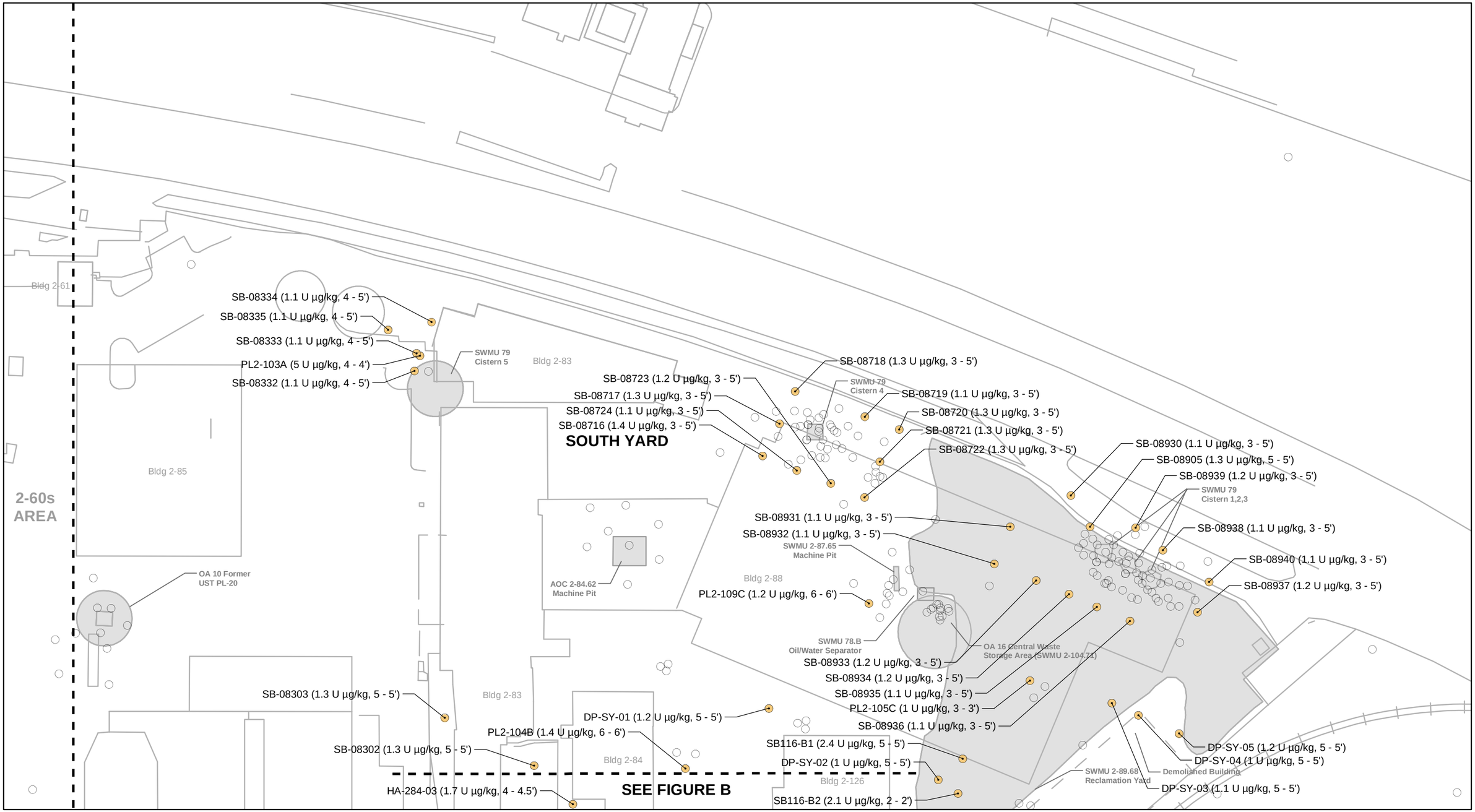
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
1,1-DICHLOROETHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_11DICHLOROETHENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2.73 µg/kg
Proposed Media Cleanup Level (PMCL) = 190 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

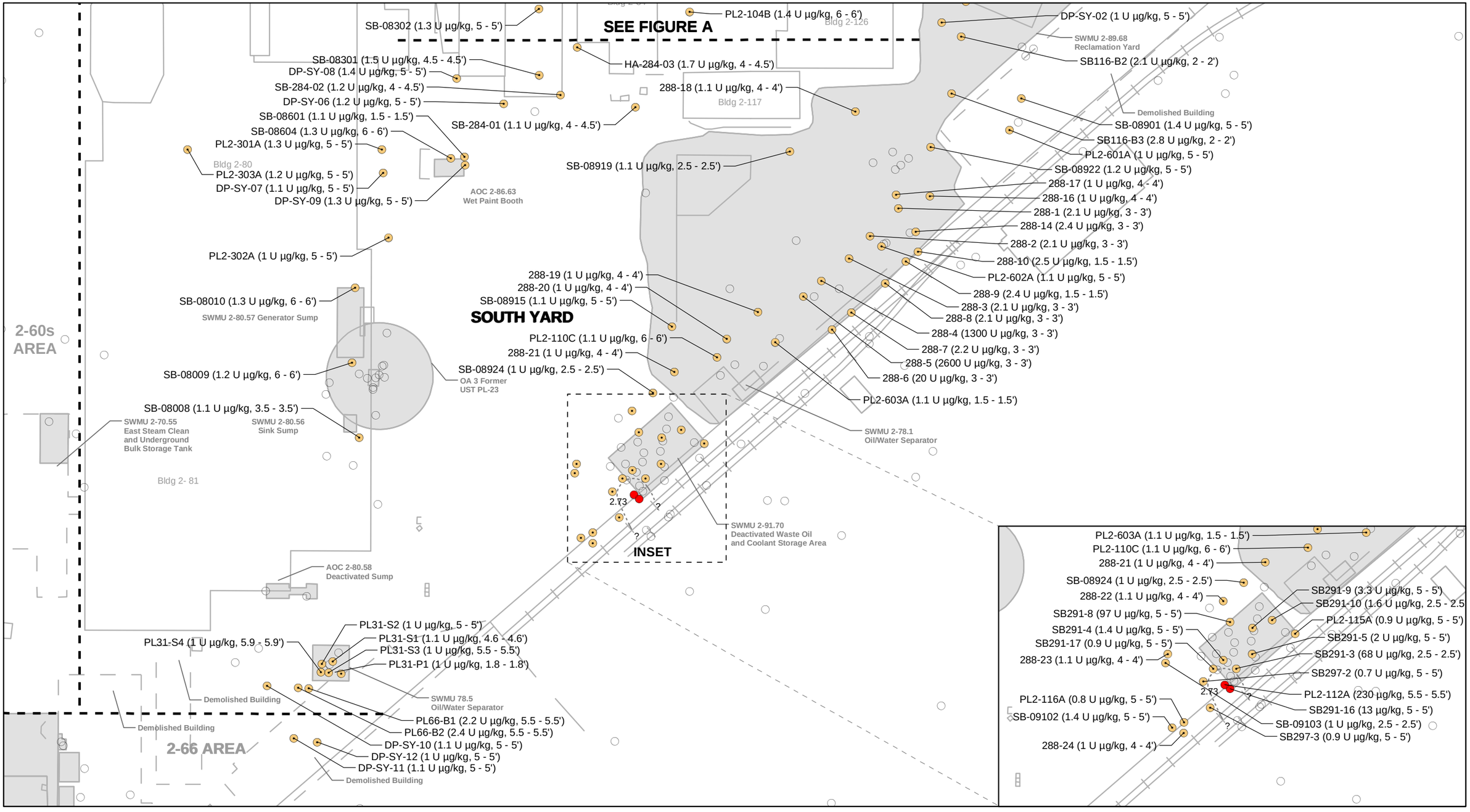
1,1-DICHLOROETHENE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_11DICHLOROETHENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2.73 µg/kg
Proposed Media Cleanup Level (PMCL) = 190 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

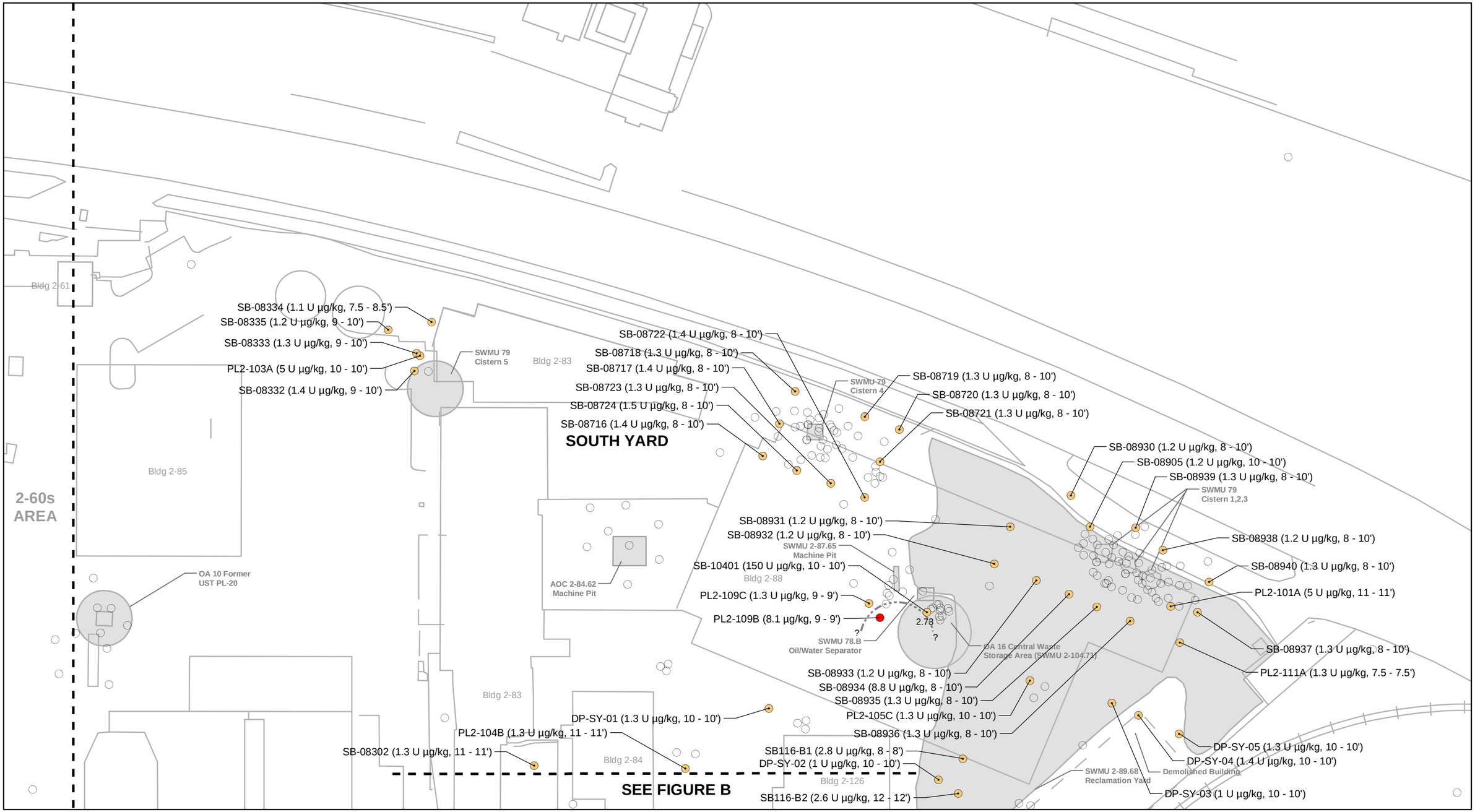
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
1,1-DICHLOROETHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_11DICHLOROETHENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2.73 µg/kg
Proposed Media Cleanup Level (PMCL) = 190 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

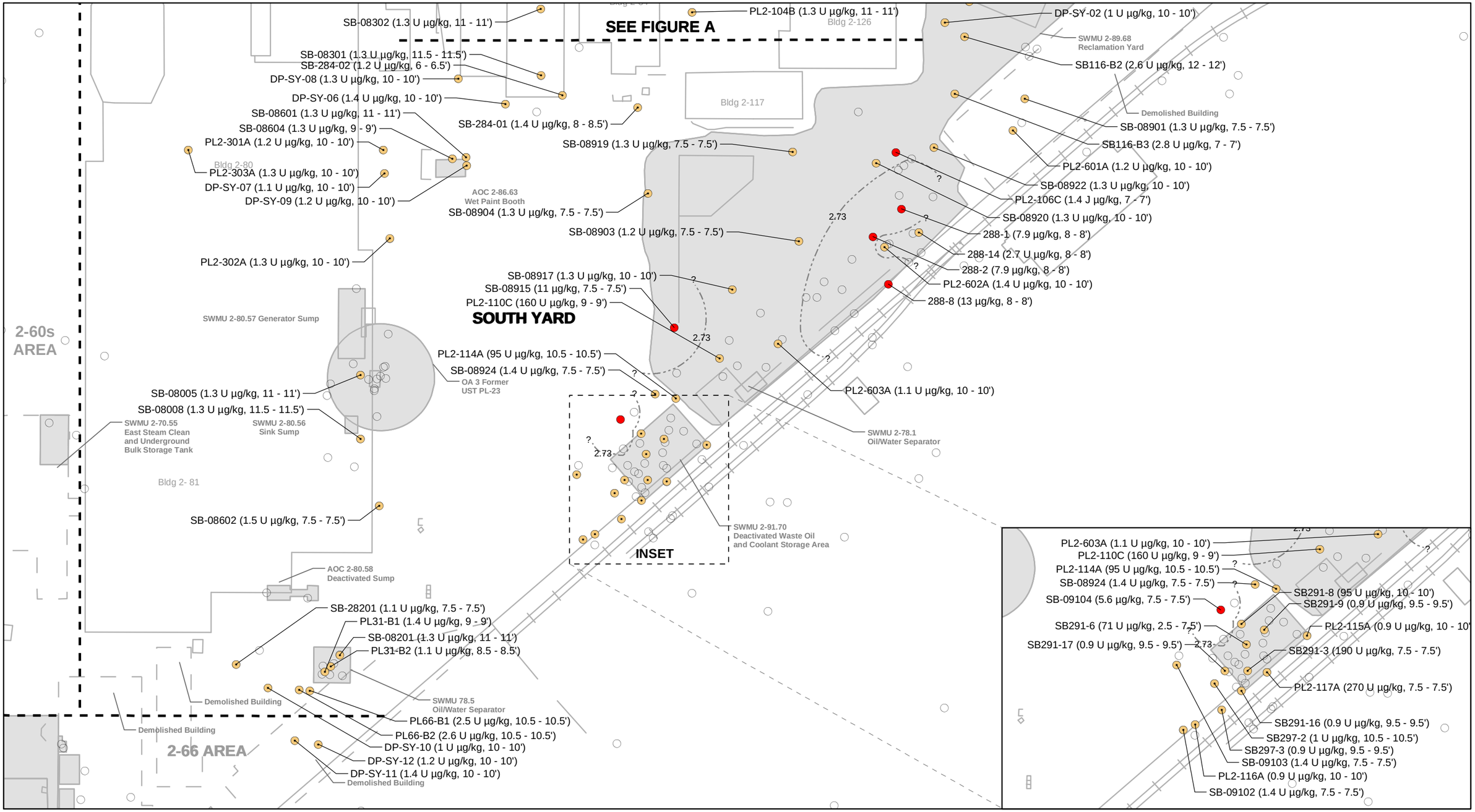
1,1-DICHLOROETHENE IN SOIL: DEPTH 6 - 12 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_11DICHLOROETHENESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2.73 µg/kg
Proposed Media Cleanup Level (PMCL) = 190 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

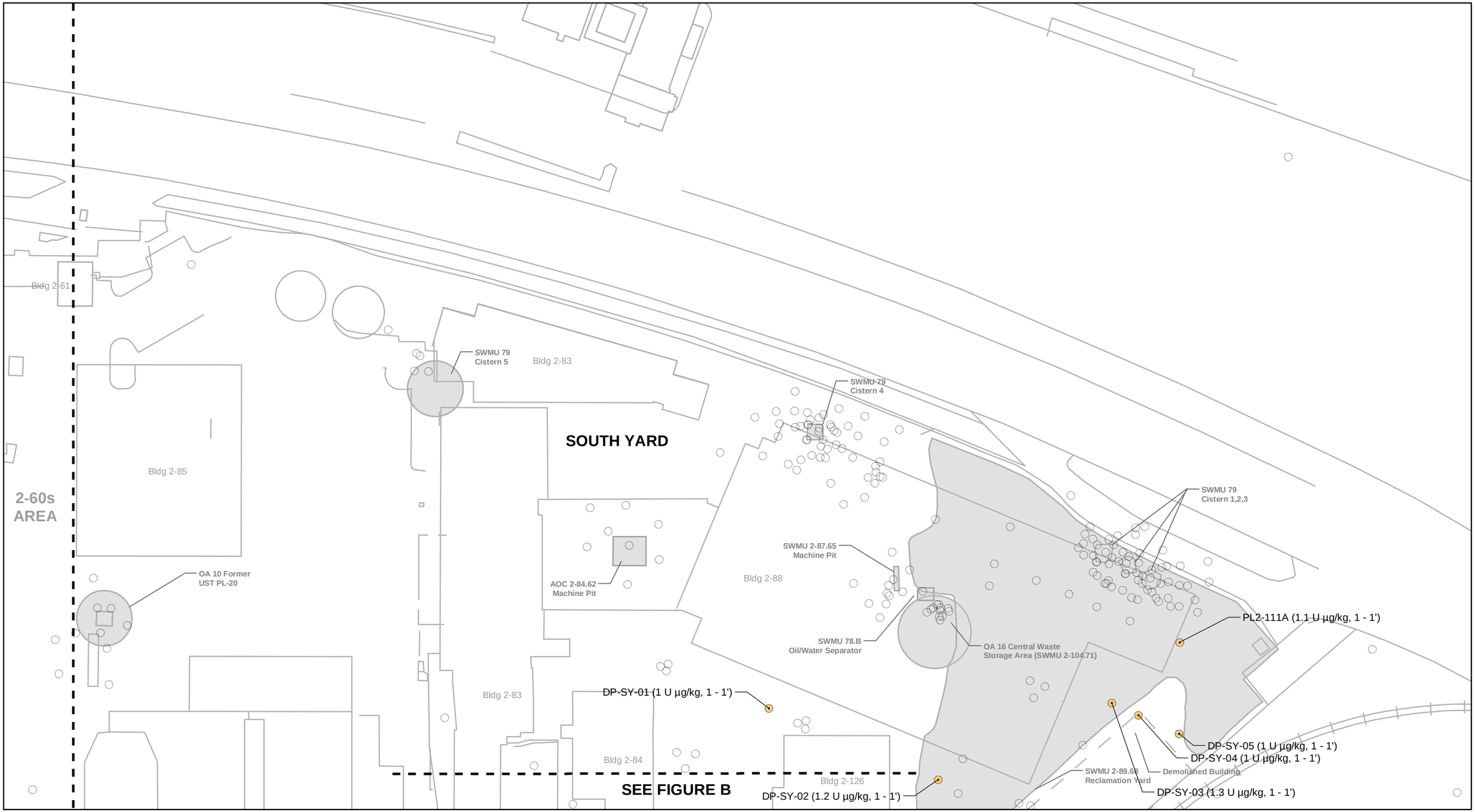
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
1,1-DICHLOROETHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_11DICHLOROETHENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 794 µg/kg
Proposed Media Cleanup Level (PMCL) = 1,620,400 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

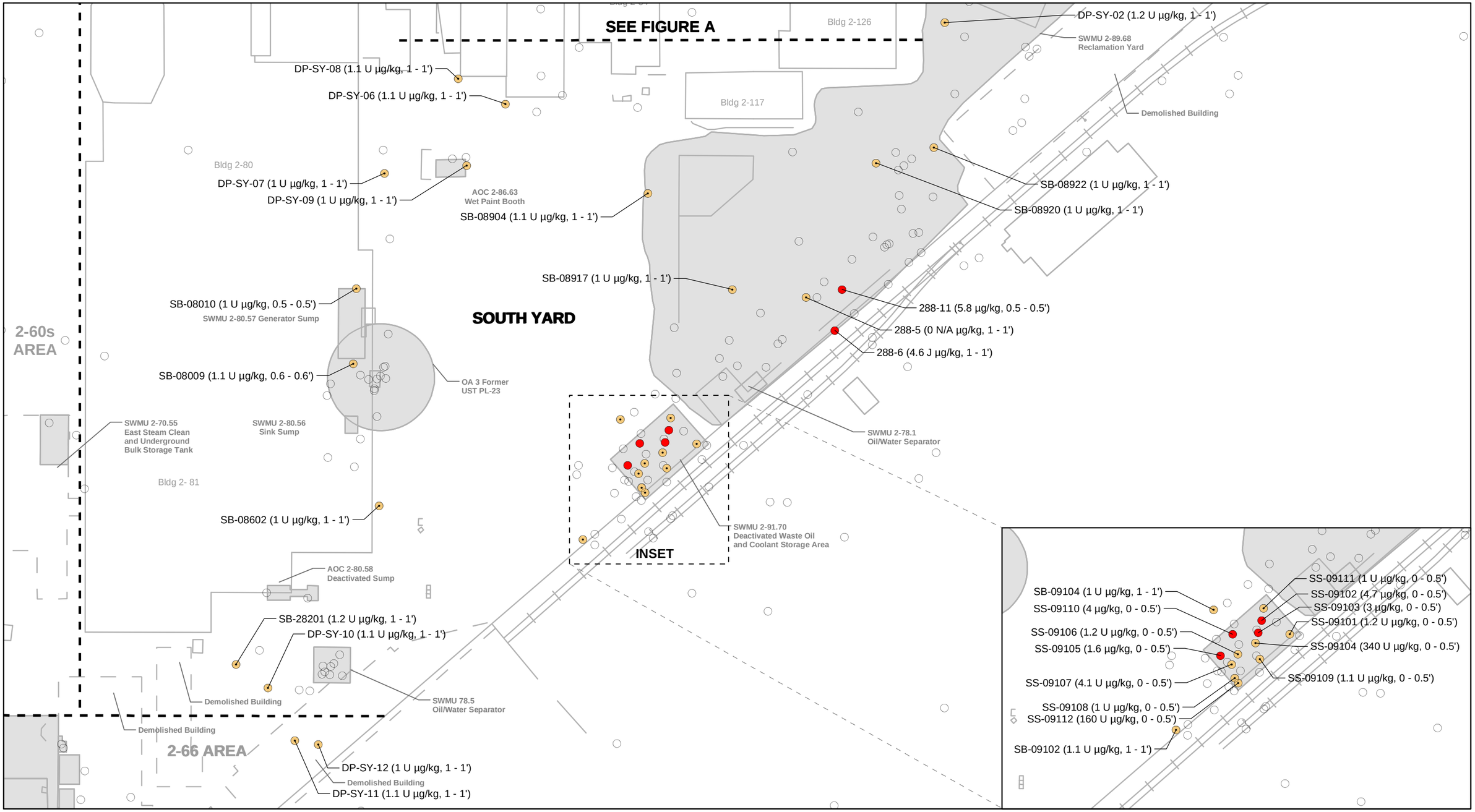
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CIS-1,2-DICHLOROETHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_CIS12DICHLOROETHENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 794 µg/kg
Proposed Media Cleanup Level (PMCL) = 1,620,400 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

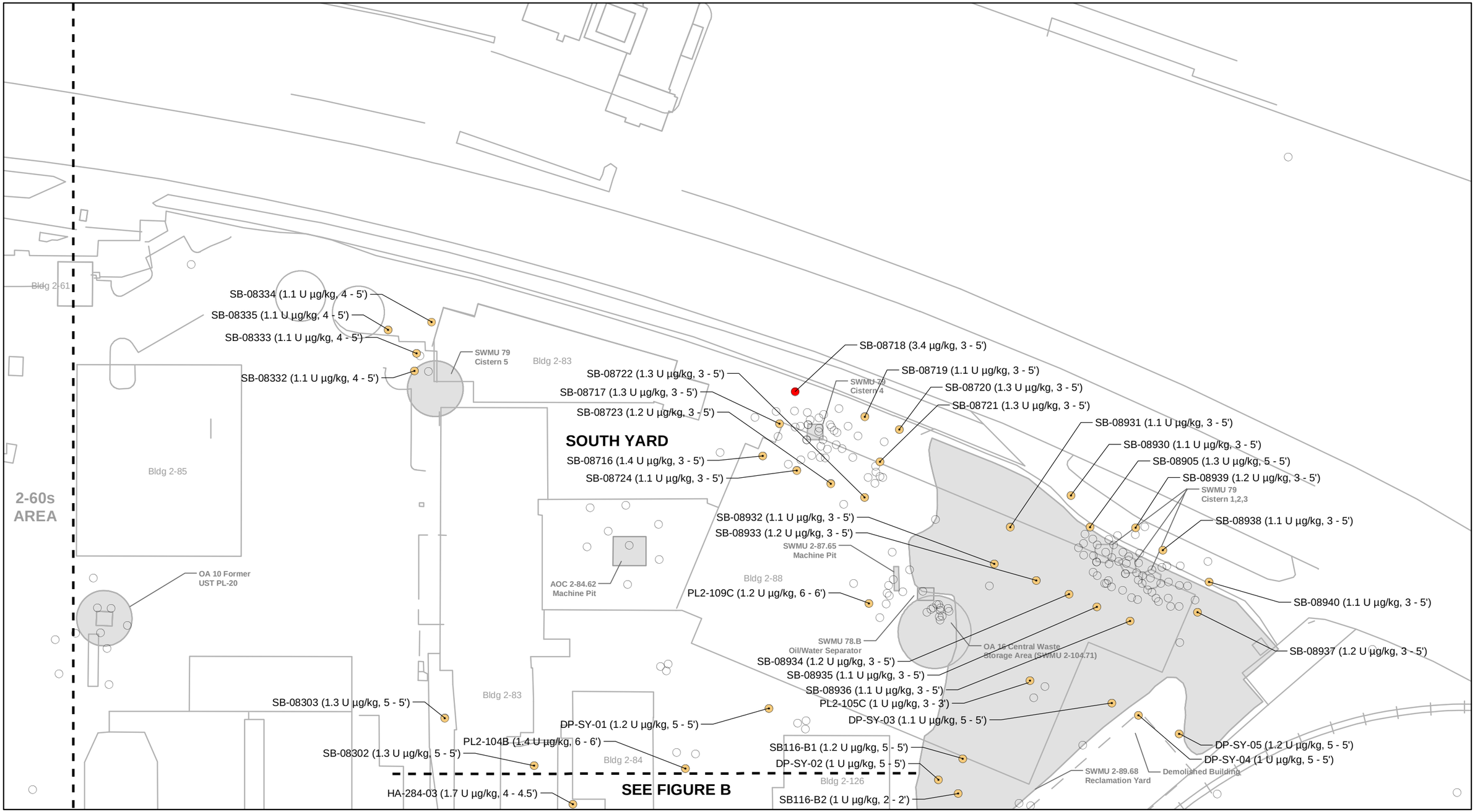
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CIS-1,2-DICHLOROETHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_CIS12DICHLOROETHENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 794 µg/kg
Proposed Media Cleanup Level (PMCL) = 1,620,400 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

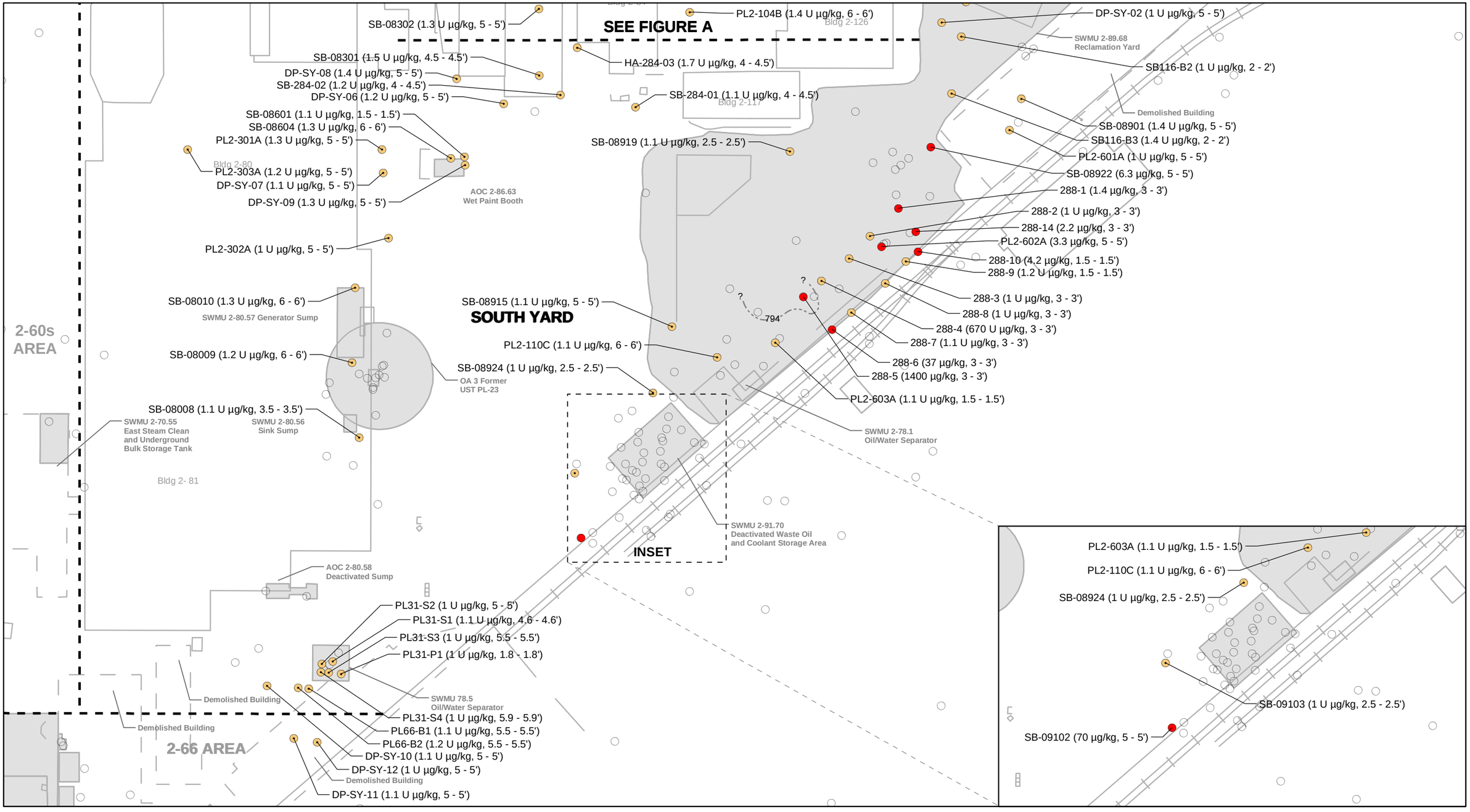
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CIS-1,2-DICHLOROETHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_CIS12DICHLOROETHENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 794 µg/kg
Proposed Media Cleanup Level (PMCL) = 1,620,400 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

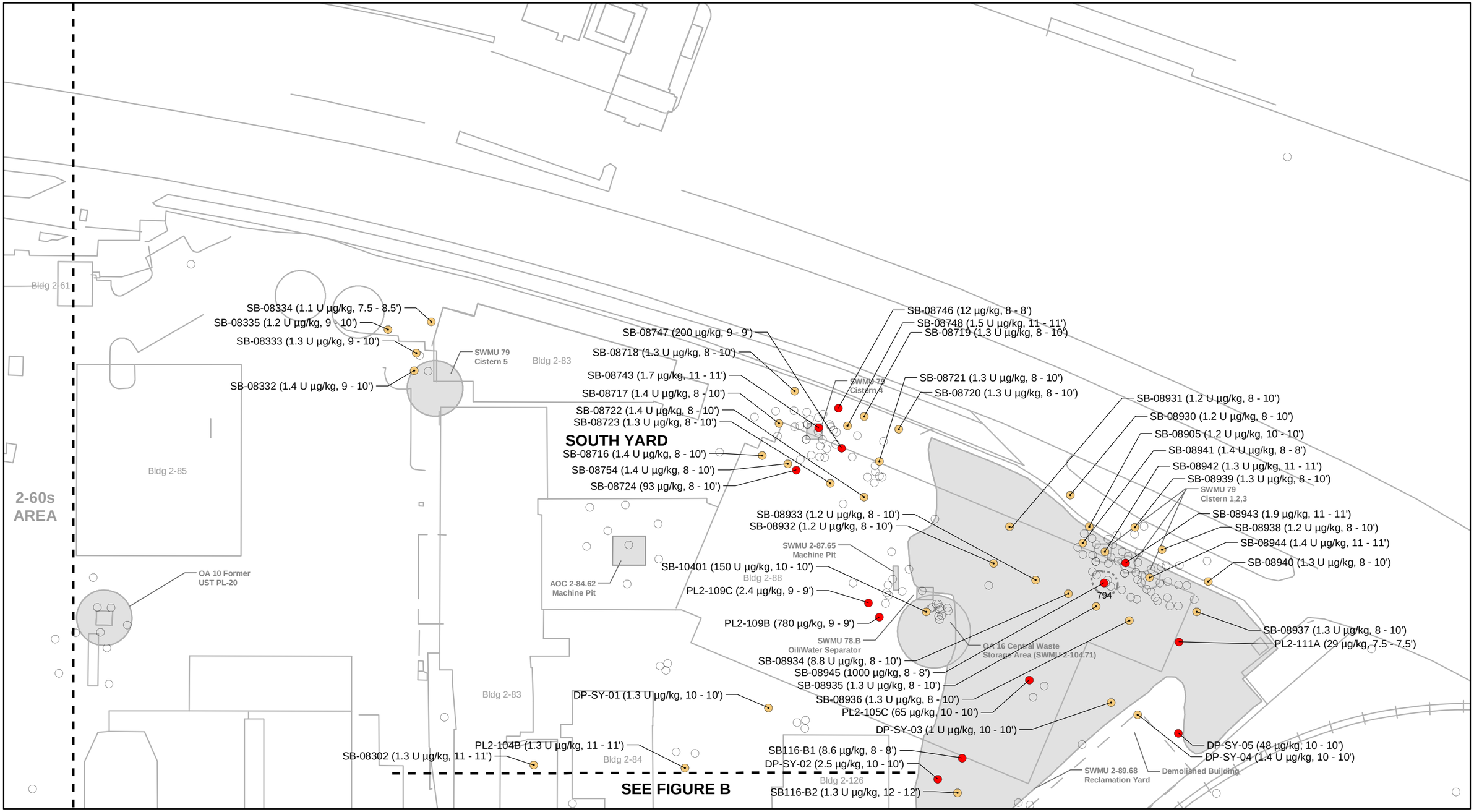
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CIS-1,2-DICHLOROETHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_CIS12DICHLOROETHENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 794 µg/kg
Proposed Media Cleanup Level (PMCL) = 1,620,400 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

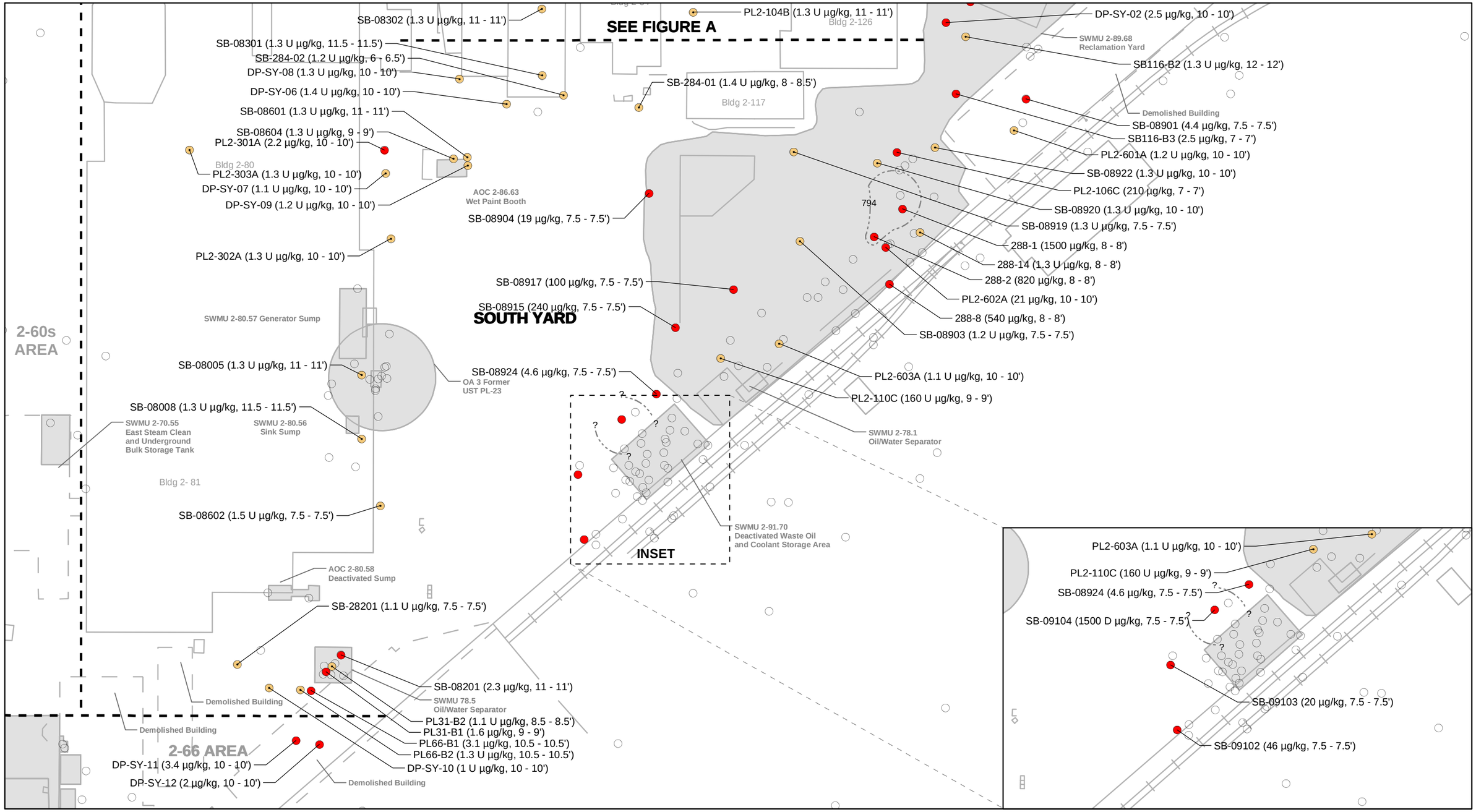
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
CIS-1,2-DICHLOROETHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_CIS12DICHLOROETHENESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 794 µg/kg
Proposed Media Cleanup Level (PMCL) = 1,620,400 µg/kg (Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

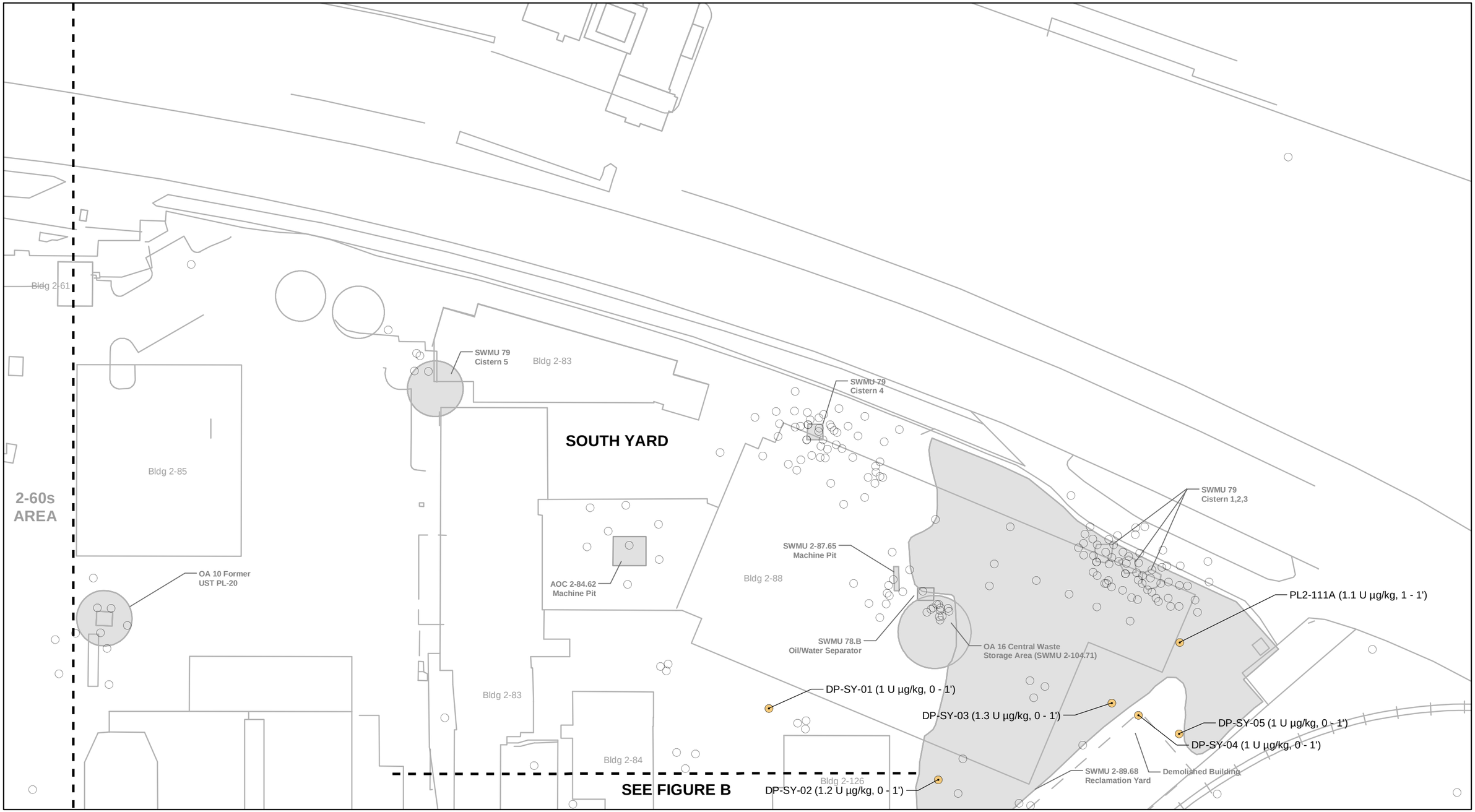
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
CIS-1,2-DICHLOROETHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_CIS12DICHLOROETHENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,520 µg/kg
Proposed Media Cleanup Level (PMCL) = 43,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

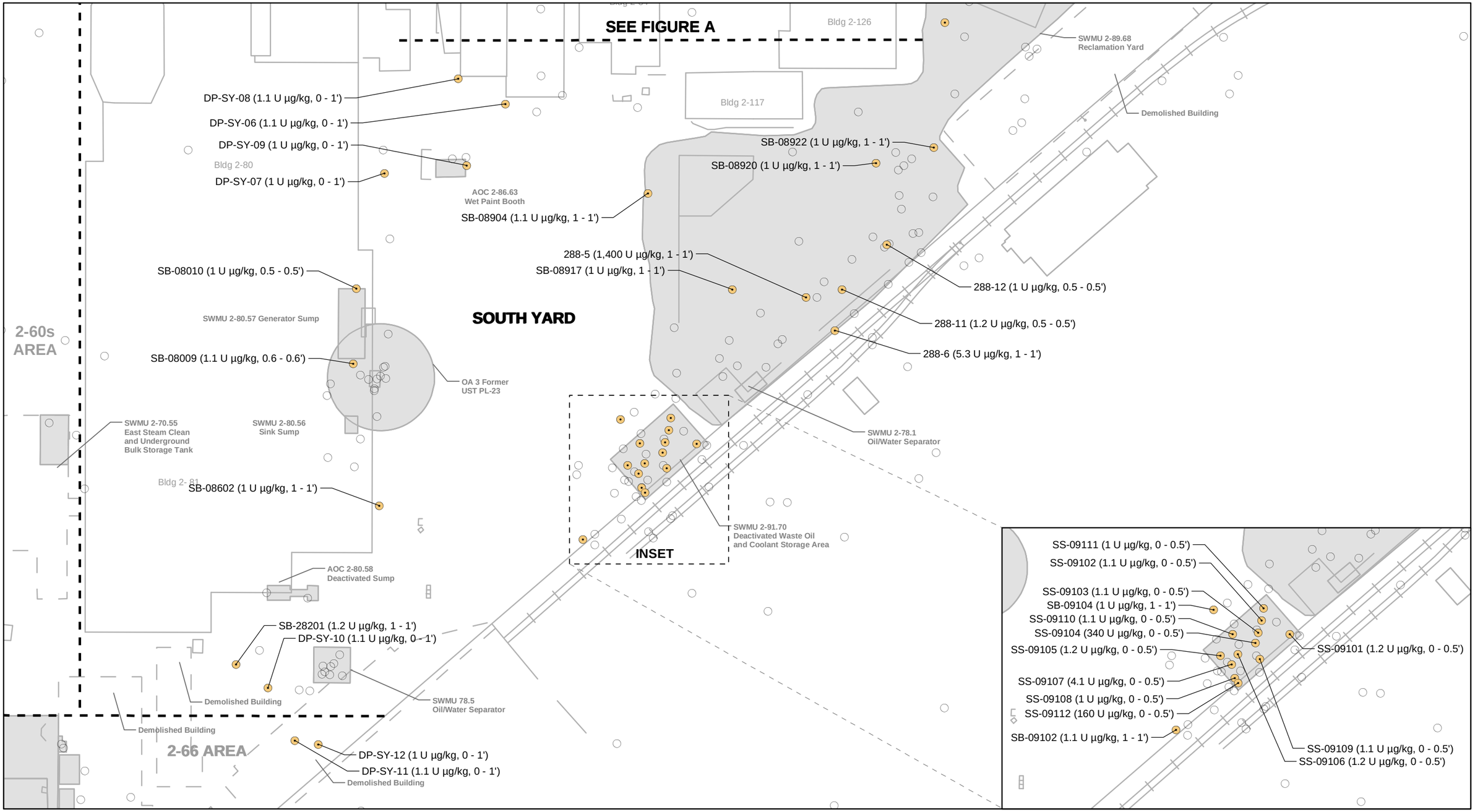
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ETHYLBENZENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_ETHYLBENZENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,520 µg/kg
Proposed Media Cleanup Level (PMCL) = 43,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

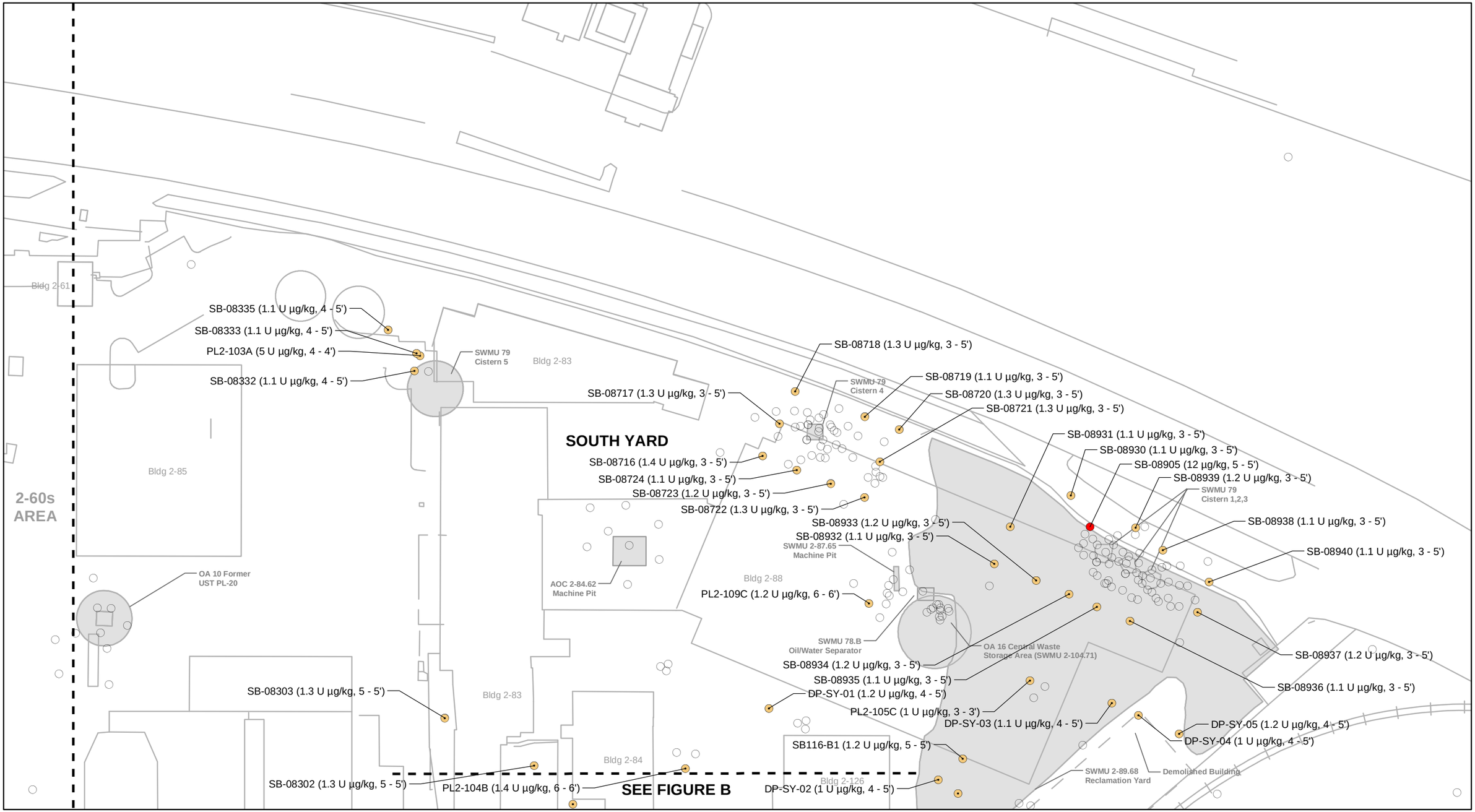
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ETHYLBENZENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_ETHYLBENZENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,520 µg/kg
Proposed Media Cleanup Level (PMCL) = 43,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

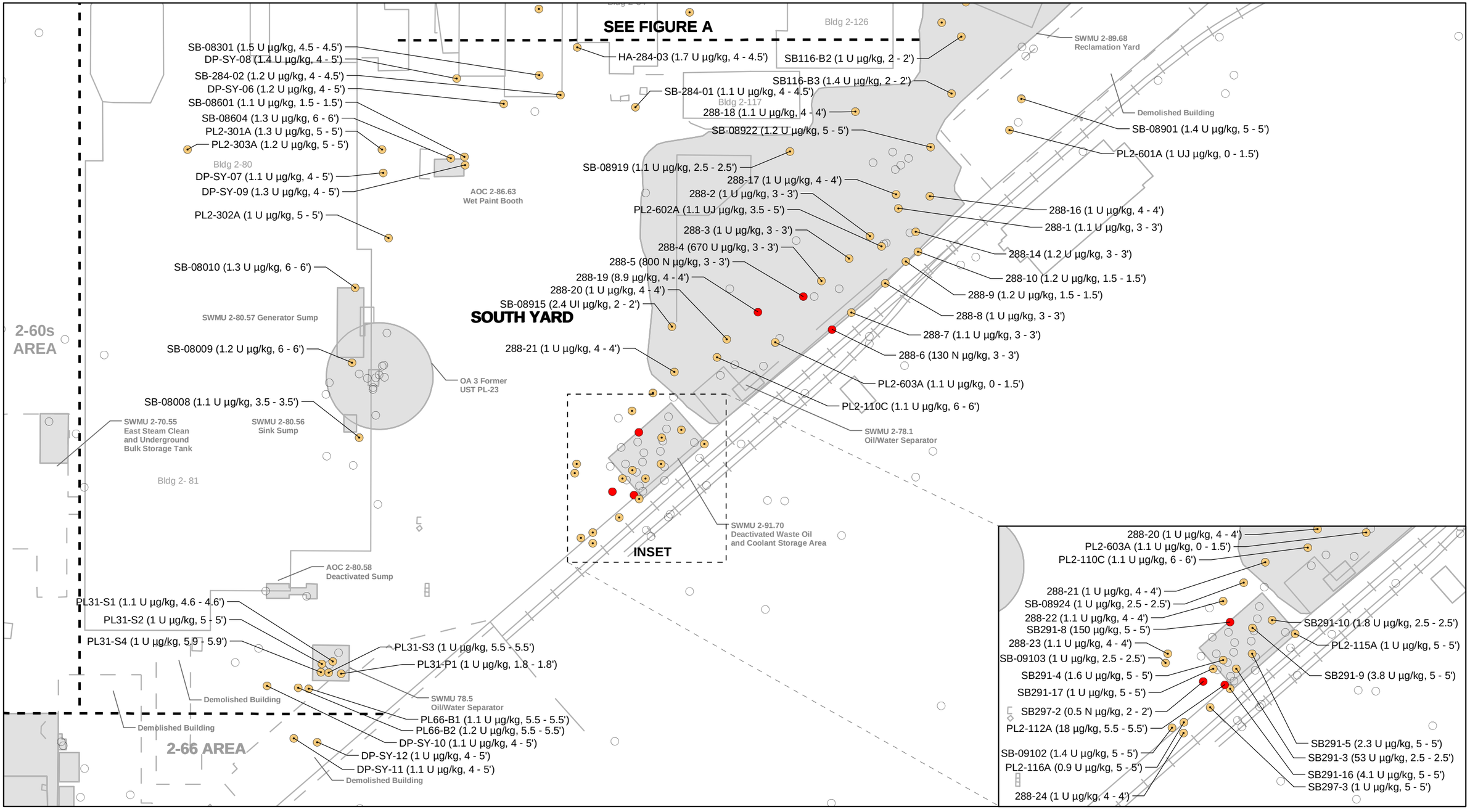
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ETHYLBENZENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_ETHYLBENZENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,520 µg/kg
Proposed Media Cleanup Level (PMCL) = 43,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

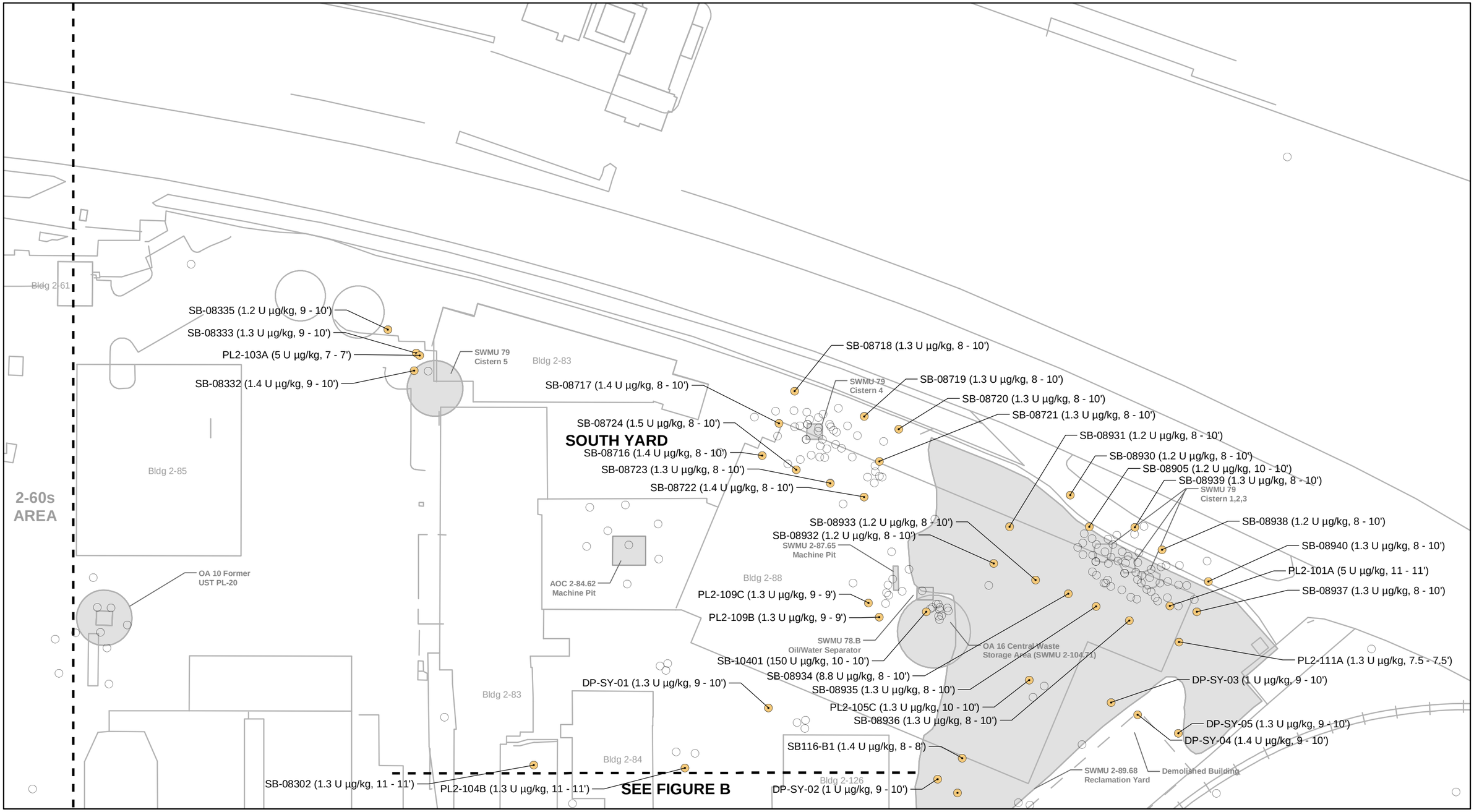
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ETHYLBENZENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_ETHYLBENZENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,520 µg/kg
Proposed Media Cleanup Level (PMCL) = 43,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

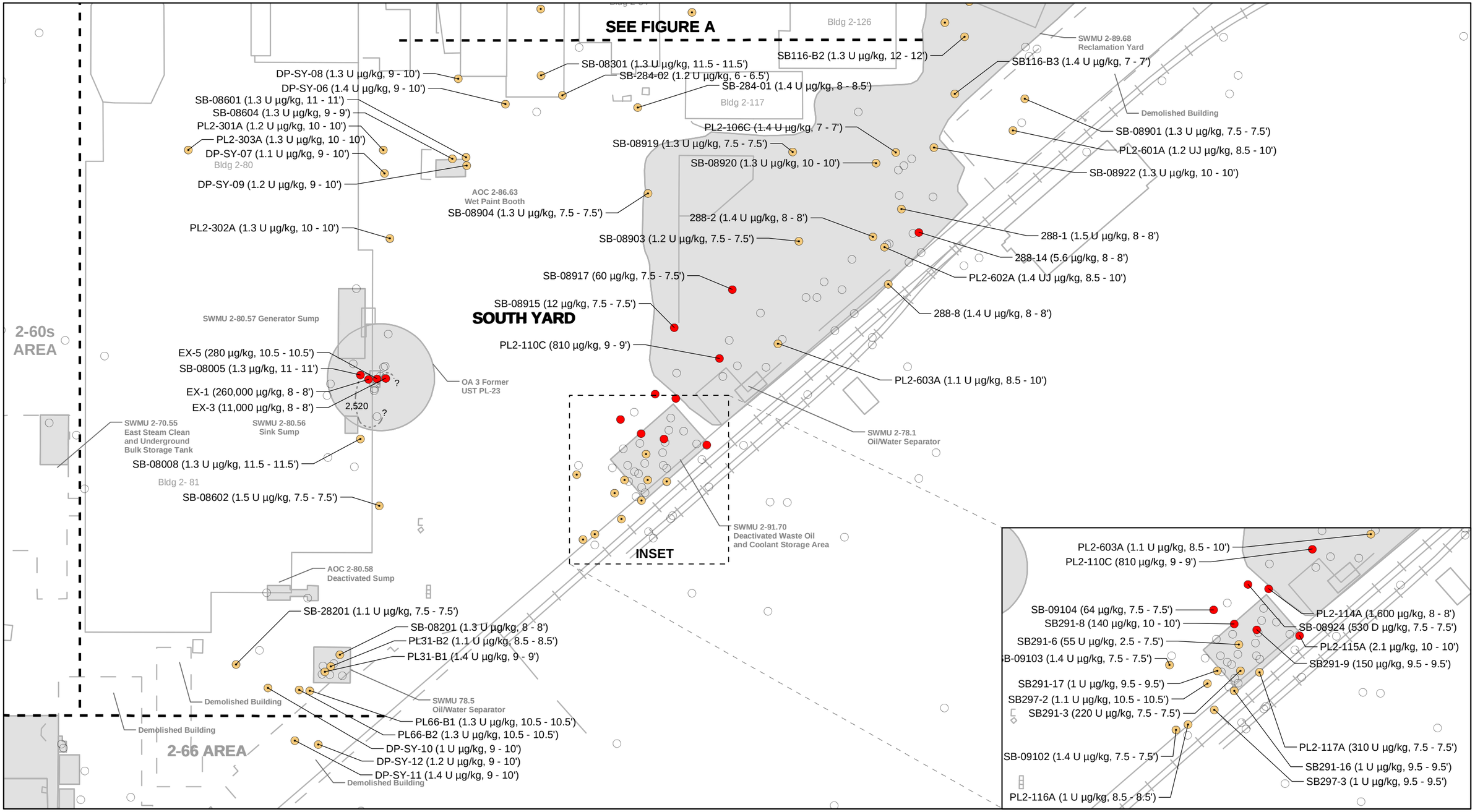
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
ETHYLBENZENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_ETHYLBENZENESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,520 µg/kg
Proposed Media Cleanup Level (PMCL) = 43,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

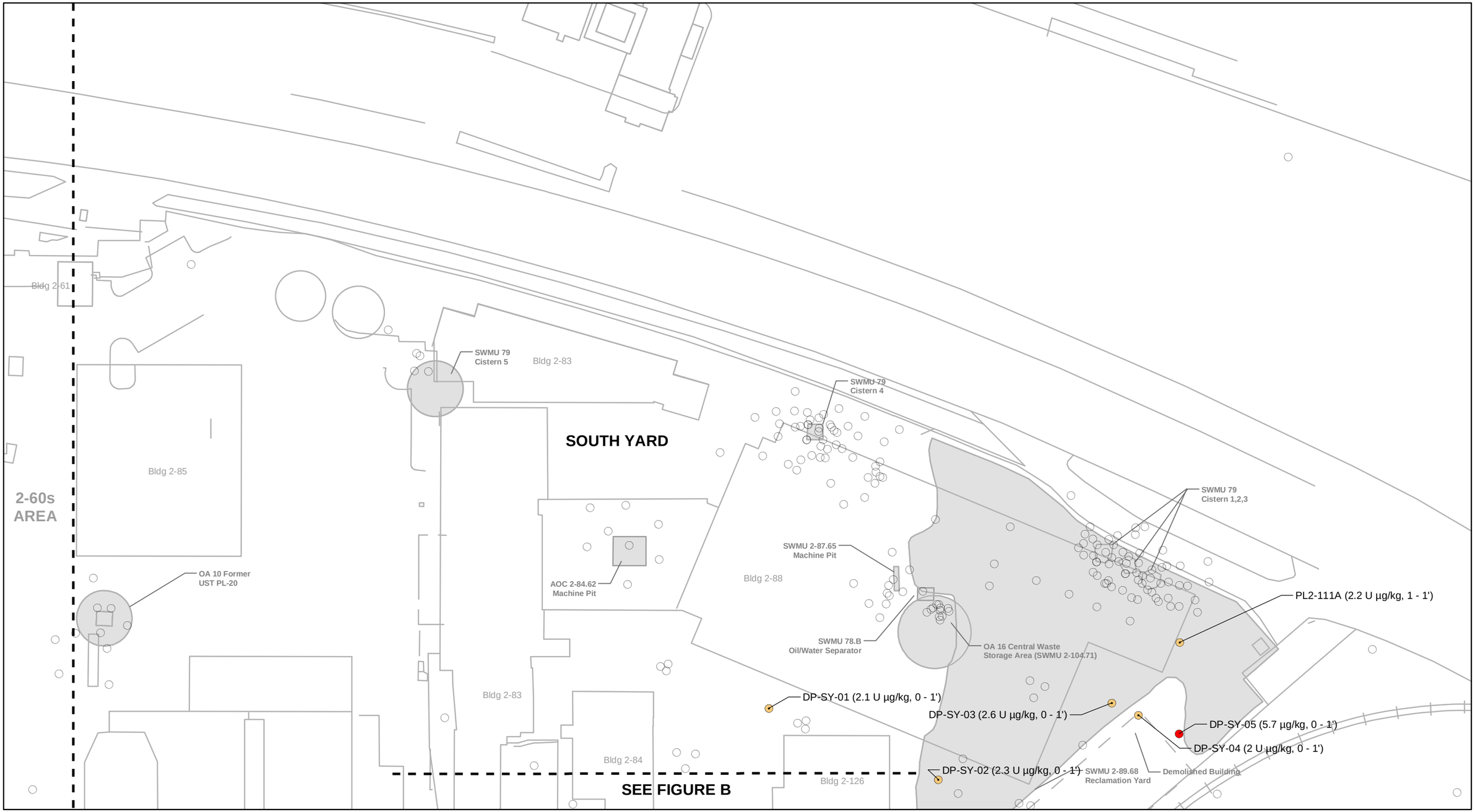
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
ETHYLBENZENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_ETHYLBENZENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 828 µg/kg
Proposed Media Cleanup Level (PMCL) = 96,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

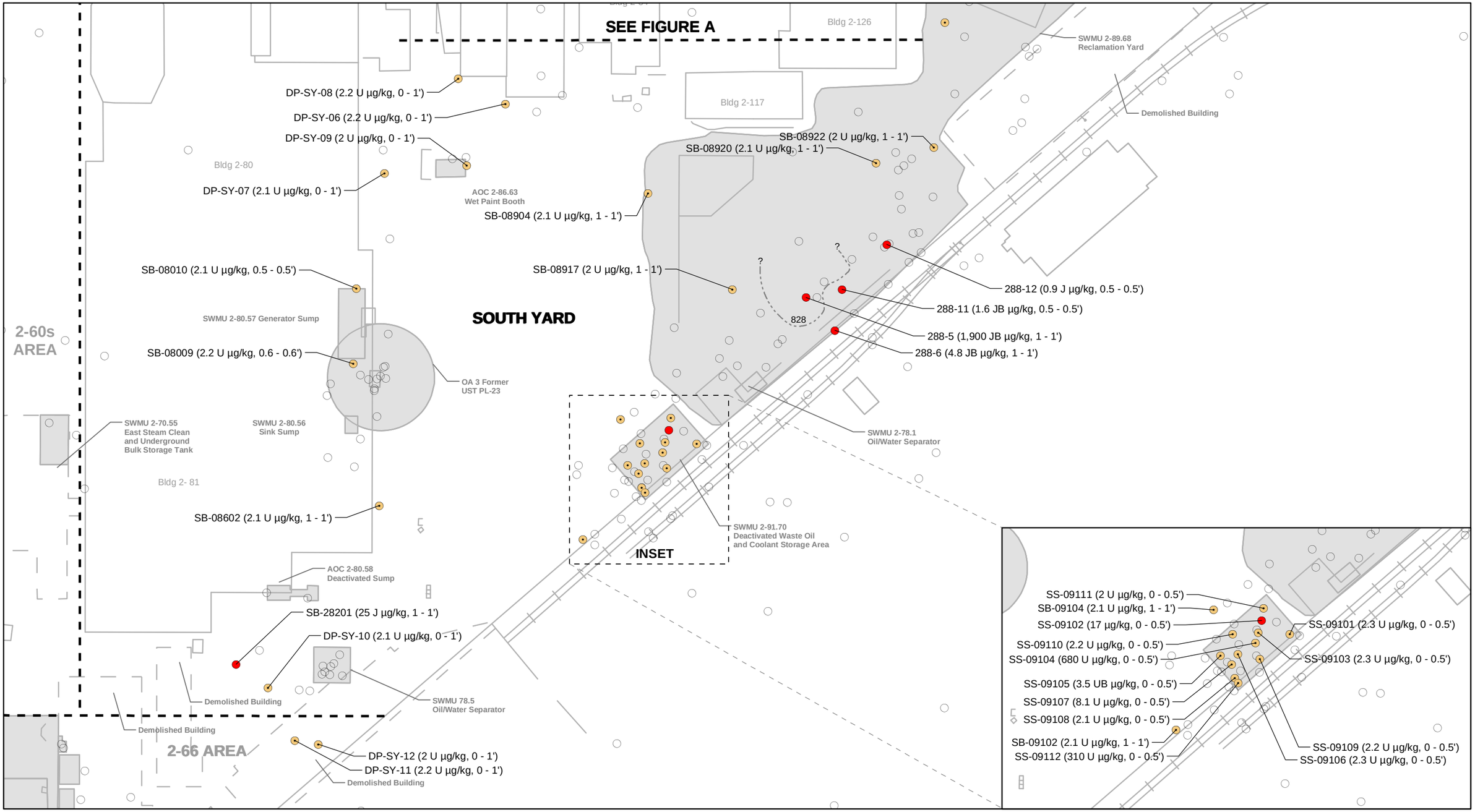
METHYLENE CHLORIDE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_METHYLENECHLORIDESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 828 µg/kg
Proposed Media Cleanup Level (PMCL) = 96,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
METHYLENE CHLORIDE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_METHYLENECHLORIDESY1B.mxd

Golder Associates

Bldg 2-61
SB-08335 (3.4 U µg/kg, 4 - 5')
SB-08333 (3.4 U µg/kg, 4 - 5')
PL2-103A (27 µg/kg, 4 - 4')
SB-08332 (3.3 U µg/kg, 4 - 5')
SWMU 79 Cistern 5
Bldg 2-83
SB-08718 (3.3 µg/kg, 3 - 5')
SB-08719 (2.2 U µg/kg, 3 - 5')
SWMU 79 Cistern 4
SB-08720 (2.8 µg/kg, 3 - 5')
SB-08721 (3.2 µg/kg, 3 - 5')
SB-08717 (3.2 µg/kg, 3 - 5')
SB-08724 (2.2 U µg/kg, 3 - 5')
SB-08716 (3.9 µg/kg, 3 - 5')
SOUTH YARD
SB-08723 (3.1 µg/kg, 3 - 5')
SB-08722 (4.2 µg/kg, 3 - 5')
SB-08931 (3.4 UJ µg/kg, 3 - 5')
SB-08930 (2.4 UJ µg/kg, 3 - 5')
SB-08905 (4.3 J µg/kg, 5 - 5')
SB-08939 (2.3 U µg/kg, 3 - 5')
SWMU 79 Cistern 1,2,3
Bldg 2-85
2-60s AREA
SB-08934 (3.2 UJ µg/kg, 3 - 5')
SB-08933 (2.4 UJ µg/kg, 3 - 5')
SB-08932 (2.2 U µg/kg, 3 - 5')
SWMU 2-87.65 Machine Pit
SB-08938 (2.2 U µg/kg, 3 - 5')
SB-08940 (2.7 UJ µg/kg, 3 - 5')
OA 10 Former UST PL-20
AOC 2-84.62 Machine Pit
Bldg 2-88
PL2-109C (1.2 U µg/kg, 6 - 6')
SB-08937 (2.9 UJ µg/kg, 3 - 5')
SWMU 78.B Oil/Water Separator
OA 16 Central Waste Storage Area (SWMU 2-104.71)
SB-08935 (2.8 UJ µg/kg, 3 - 5')
SB-08936 (4 UJ µg/kg, 3 - 5')
SB-08303 (2.7 U µg/kg, 5 - 5')
Bldg 2-83
DP-SY-01 (2.5 U µg/kg, 4 - 5')
PL2-105C (2.1 U µg/kg, 3 - 3')
DP-SY-05 (2.4 U µg/kg, 4 - 5')
SB116-B1 (2.4 U µg/kg, 5 - 5')
DP-SY-04 (2.1 U µg/kg, 4 - 5')
DP-SY-03 (2.1 U µg/kg, 4 - 5')
Bldg 2-84
SWMU 2-89.68 Reclamation Yard
Demolished Building
SB-08302 (3.7 UB µg/kg, 5 - 5')
PL2-104B (2.8 U µg/kg, 6 - 6')
SEE FIGURE B
Bldg 2-126
DP-SY-02 (2.1 U µg/kg, 4 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 828 µg/kg
Proposed Media Cleanup Level (PMCL) = 96,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
METHYLENE CHLORIDE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_METHYLENECHLORIDESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68 Reclamation Yard

HA-284-03 (7.3 µg/kg, 4 - 4.5')

SB116-B2 (2.1 U µg/kg, 2 - 2')

DP-SY-08 (2.7 U µg/kg, 4 - 5')

SB-08301 (3 U µg/kg, 4.5 - 4.5')

SB-284-02 (15 µg/kg, 4 - 4.5')

SB116-B3 (2.8 U µg/kg, 2 - 2')

Bldg 2-117

SB-284-01 (2.2 µg/kg, 4 - 4.5')

288-18 (1.1 U µg/kg, 4 - 4')

Demolished Building

SB-08601 (2.3 U µg/kg, 1.5 - 1.5')

SB-08604 (2.6 U µg/kg, 6 - 6')

DP-SY-06 (2.4 U µg/kg, 4 - 5')

SB-08901 (2.9 U µg/kg, 5 - 5')

PL2-301A (5.8 B µg/kg, 5 - 5')

PL2-303A (2.3 U µg/kg, 5 - 5')

PL2-601A (2 U µg/kg, 3.5 - 5')

Bldg 2-80

SB-08919 (2.2 U µg/kg, 2.5 - 2.5')

SB-08922 (2.3 U µg/kg, 5 - 5')

DP-SY-07 (2.3 U µg/kg, 4 - 5')

288-17 (0.7 NB µg/kg, 4 - 4')

288-16 (1.2 B µg/kg, 4 - 4')

DP-SY-09 (2.5 U µg/kg, 4 - 5')

AOC 2-86.63 Wet Paint Booth

288-2 (1.2 JB µg/kg, 3 - 3')

288-1 (1.5 JB µg/kg, 3 - 3')

288-3 (1 JB µg/kg, 3 - 3')

PL2-302A (2 U µg/kg, 5 - 5')

288-4 (470 JB µg/kg, 3 - 3')

288-14 (1.7 JB µg/kg, 3 - 3')

288-5 (1,100 JB µg/kg, 3 - 3')

SB-08010 (2.5 U µg/kg, 6 - 6')

288-19 (1 J µg/kg, 4 - 4')

288-10 (2.2 JB µg/kg, 1.5 - 1.5')

288-20 (1 J µg/kg, 4 - 4')

828

288-9 (0.9 JB µg/kg, 1.5 - 1.5')

SWMU 2-80.57 Generator Sump

PL2-602A (2.3 U µg/kg, 3.5 - 5')

2-60s AREA

SOUTH YARD

SB-08915 (2.2 U µg/kg, 5 - 5')

288-8 (0.7 JB µg/kg, 3 - 3')

PL2-110C (2.3 U µg/kg, 6 - 6')

288-7 (0.9 JB µg/kg, 3 - 3')

SB-08009 (2.3 U µg/kg, 6 - 6')

288-21 (0.9 J µg/kg, 4 - 4')

288-6 (11 JB µg/kg, 3 - 3')

OA 3 Former UST PL-23

PL2-603A (2.1 U µg/kg, 0 - 1.5')

SWMU 2-70.55 East Steam Clean and Underground Bulk Storage Tank

SWMU 2-80.56 Sink Sump

SWMU 2-78.1 Oil/Water Separator

SB-08008 (2.2 U µg/kg, 3.5 - 3.5')

Bldg 2- 81

SWMU 2-91.70 Deactivated Waste Oil and Coolant Storage Area

INSET

AOC 2-80.58 Deactivated Sump

PL31-S1 (2.1 U µg/kg, 4.6 - 4.6')

PL31-S2 (2 U µg/kg, 5 - 5')

PL31-P1 (2 U µg/kg, 1.8 - 1.8')

PL31-S3 (2.1 U µg/kg, 5.5 - 5.5')

PL31-S4 (1.9 U µg/kg, 5.9 - 5.9')

Demolished Building

SWMU 78.5 Oil/Water Separator

PL66-B1 (2.2 U µg/kg, 5.5 - 5.5')

Demolished Building

PL66-B2 (2.4 U µg/kg, 5.5 - 5.5')

2-66 AREA

DP-SY-10 (2.2 U µg/kg, 4 - 5')

DP-SY-12 (2.1 U µg/kg, 4 - 5')

DP-SY-11 (2.2 U µg/kg, 4 - 5')

Demolished Building

288-20 (1 J µg/kg, 4 - 4')

PL2-603A (2.1 U µg/kg, 0 - 1.5')

PL2-110C (2.3 U µg/kg, 6 - 6')

288-21 (0.9 J µg/kg, 4 - 4')

SB-08924 (2 U µg/kg, 2.5 - 2.5')

288-22 (1.2 µg/kg, 4 - 4')

SB291-10 (7.8 U µg/kg, 2.5 - 2.5')

SB291-8 (490 U µg/kg, 5 - 5')

288-23 (0.9 J µg/kg, 4 - 4')

PL2-115A (1.3 JB µg/kg, 2 - 2')

B-09103 (2.1 U µg/kg, 2.5 - 2.5')

SB291-9 (6.6 J µg/kg, 2.5 - 2.5')

SB291-4 (6.7 U µg/kg, 5 - 5')

SB291-17 (13 B µg/kg, 5 - 5')

SB297-2 (1.7 JB µg/kg, 2 - 2')

PL2-112A (14 J µg/kg, 5.5 - 5.5')

SB291-5 (9.3 U µg/kg, 5 - 5')

SB-09102 (4.4 µg/kg, 5 - 5')

SB291-3 (100 B µg/kg, 2.5 - 2.5')

PL2-116A (1.8 JB µg/kg, 5 - 5')

SB291-16 (6.9 JB µg/kg, 5 - 5')

SB297-3 (3.6 JB µg/kg, 5 - 5')

288-24 (1 U µg/kg, 4 - 4')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70

Scale 1" = 70 Feet

Map Projection: Washington State Plane North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 828 µg/kg
Proposed Media Cleanup Level (PMCL) = 96,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)

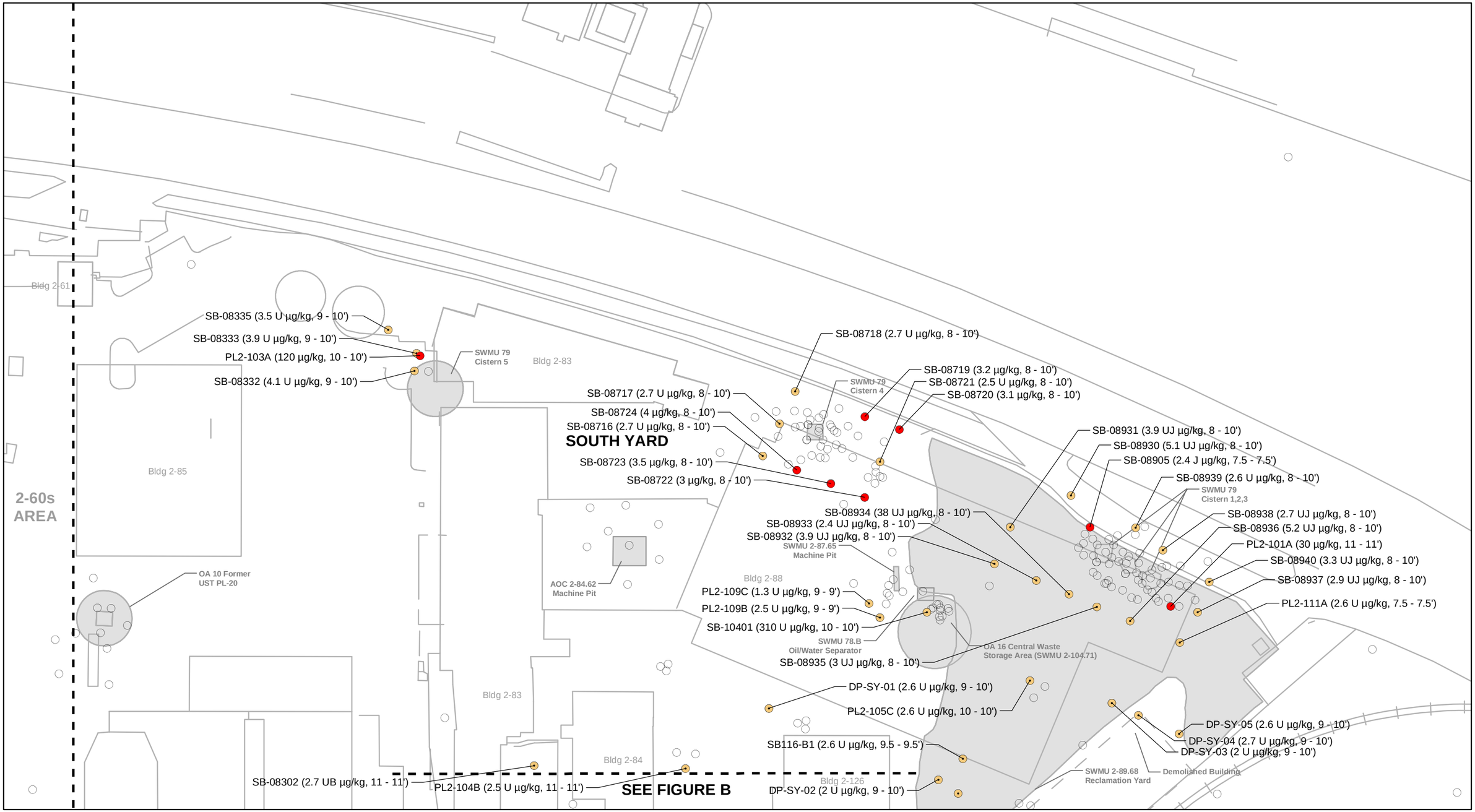
METHYLENE CHLORIDE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_METHYLENECHLORIDESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 828 µg/kg
Proposed Media Cleanup Level (PMCL) = 96,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

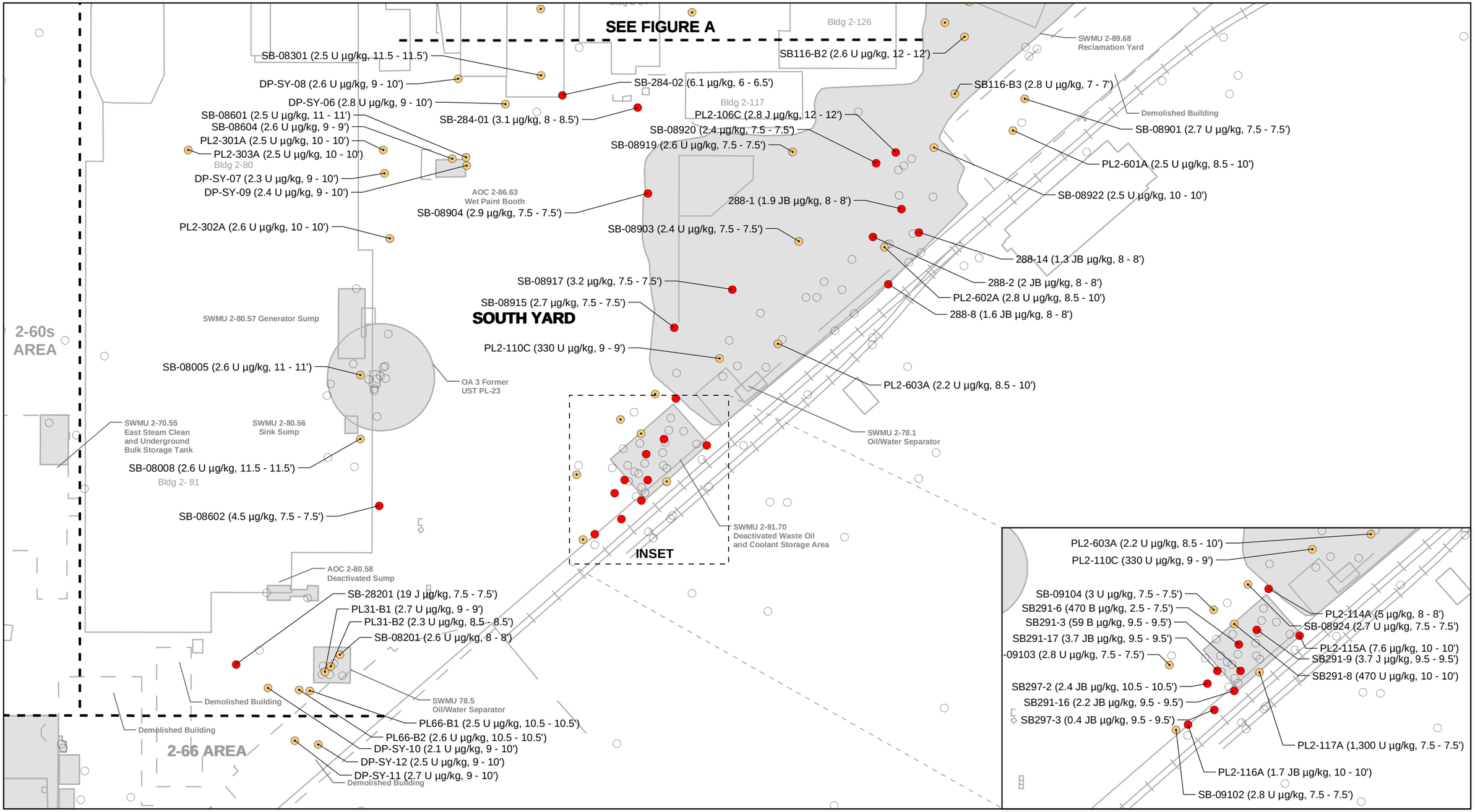
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
METHYLENE CHLORIDE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_METHYLENECHLORIDESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 828 µg/kg
Proposed Media Cleanup Level (PMCL) = 96,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

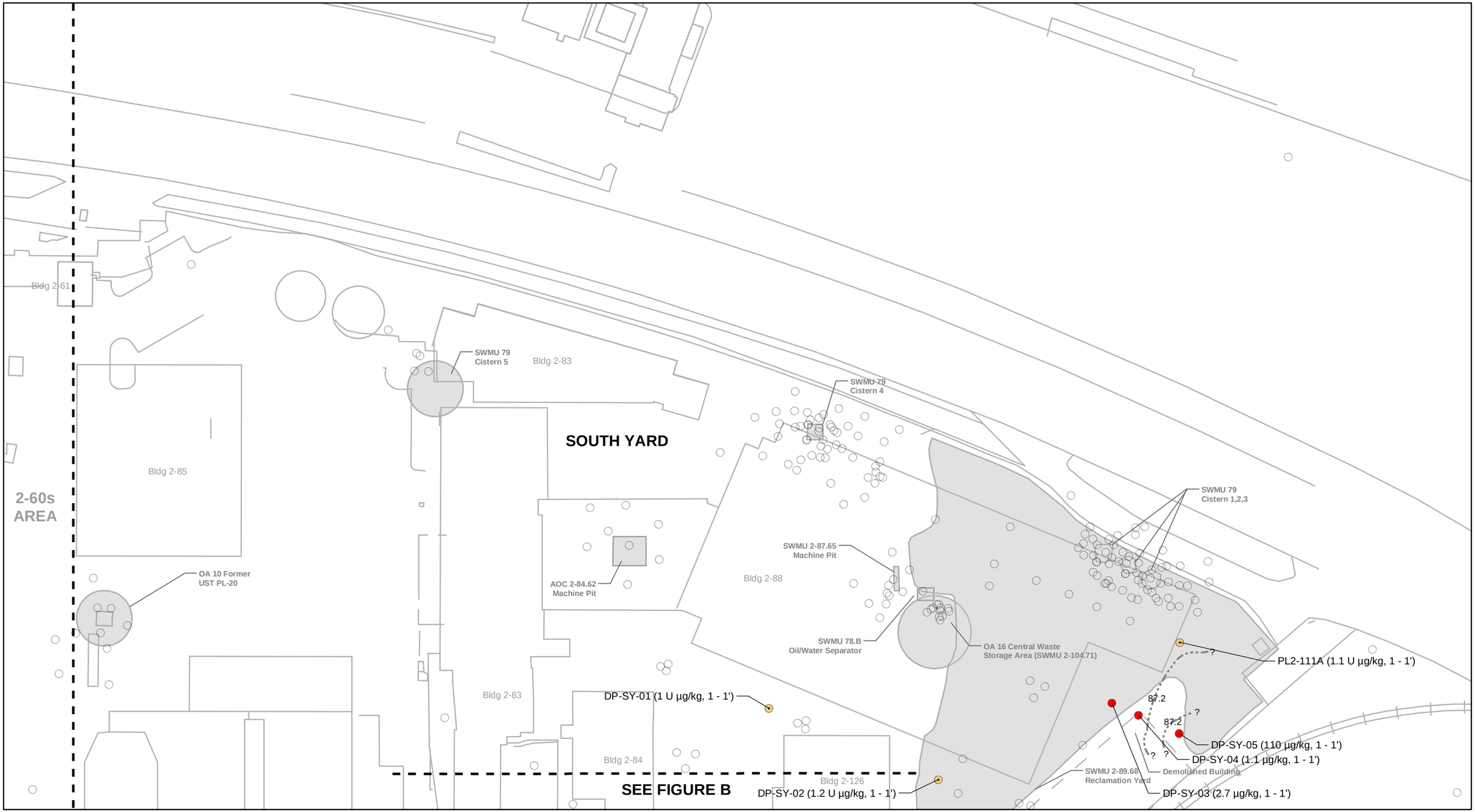
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
METHYLENE CHLORIDE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_METHYLENECHLORIDESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 8.72 µg/kg
Proposed Media Cleanup Level (PMCL) = 890 µg/kg (Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

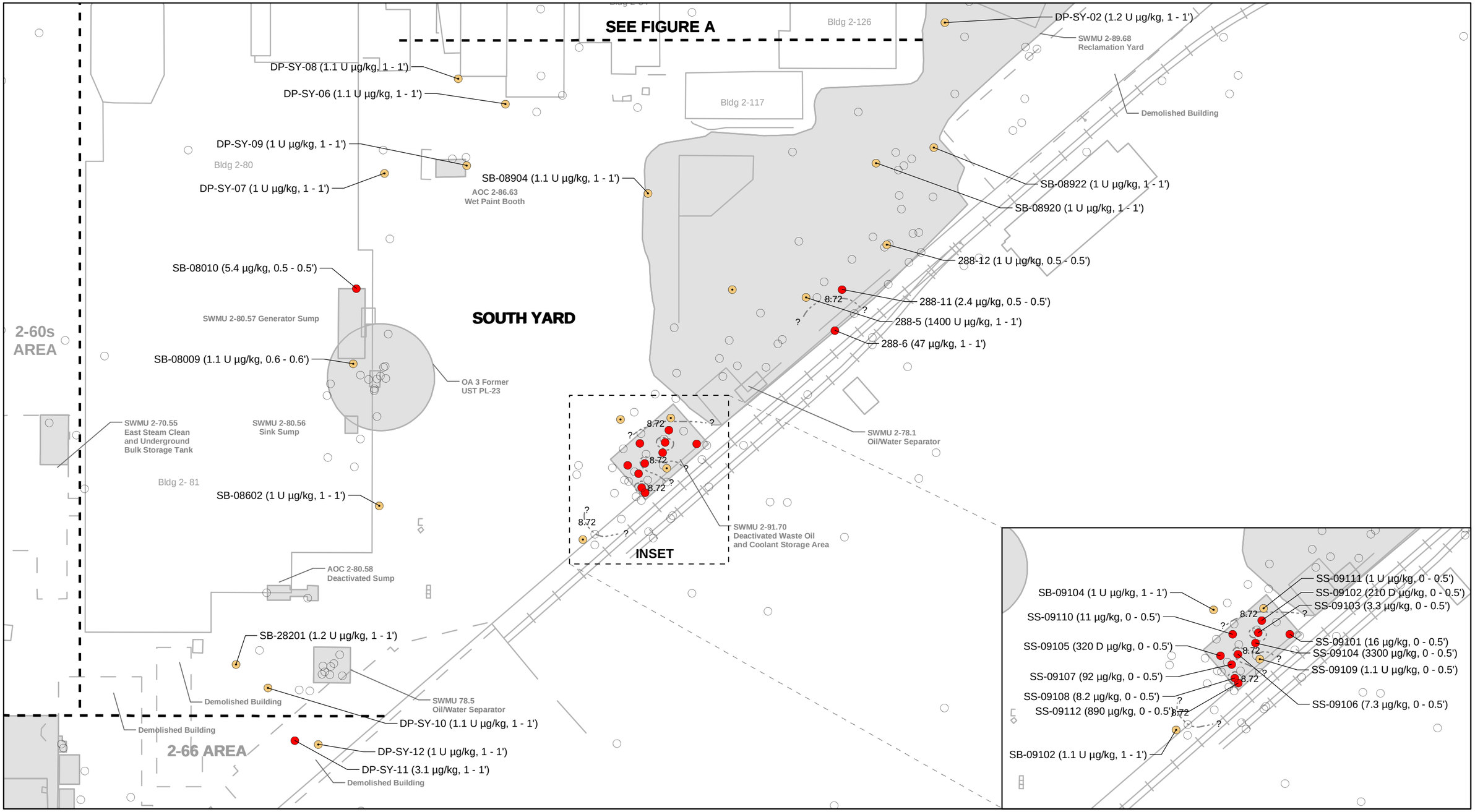
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TETRACHLOROETHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_TETRACHLOROETHENESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 8.72 µg/kg
Proposed Media Cleanup Level (PMCL) = 890 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

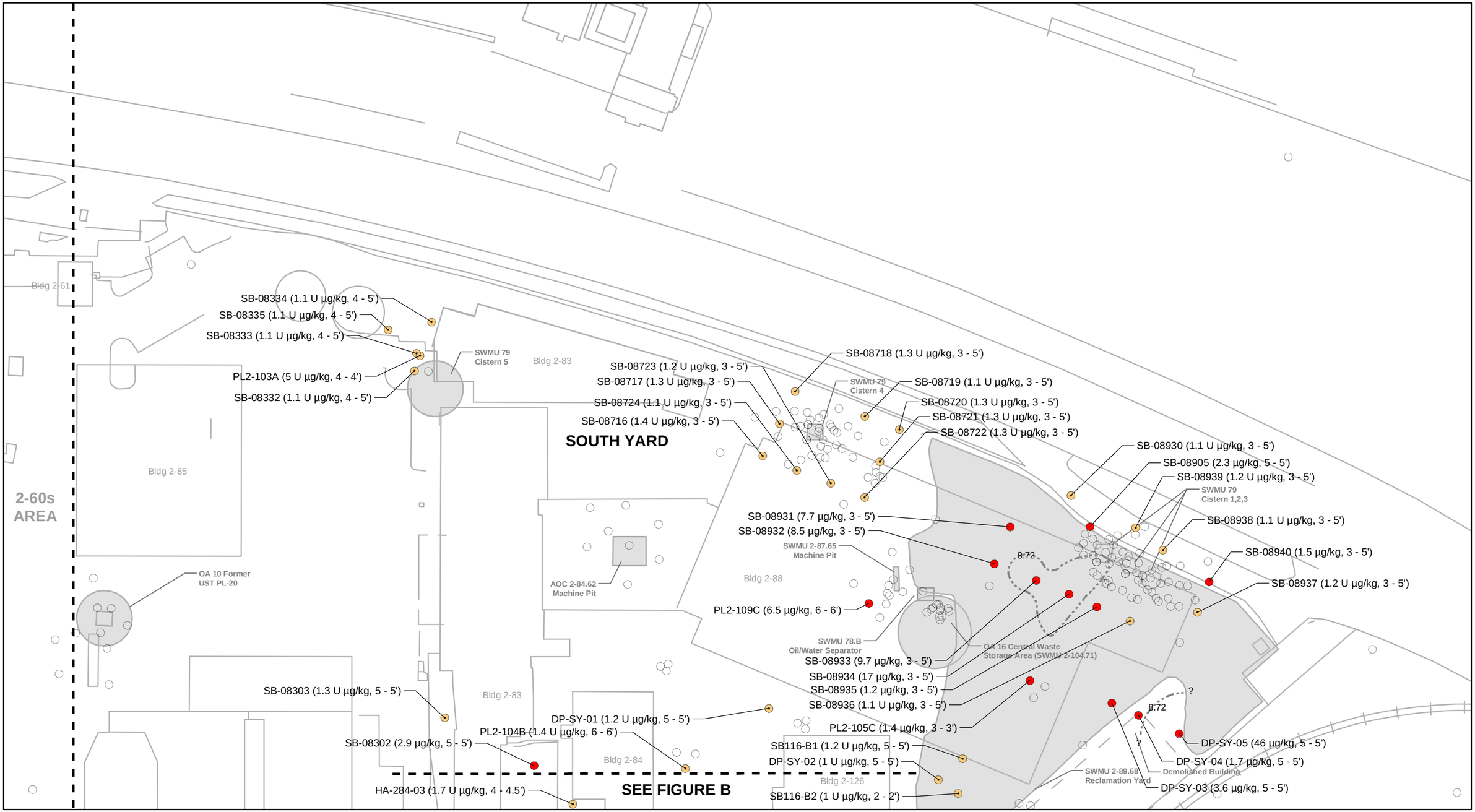
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TETRACHLOROETHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_TETRACHLOROETHENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 8.72 µg/kg
Proposed Media Cleanup Level (PMCL) = 890 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

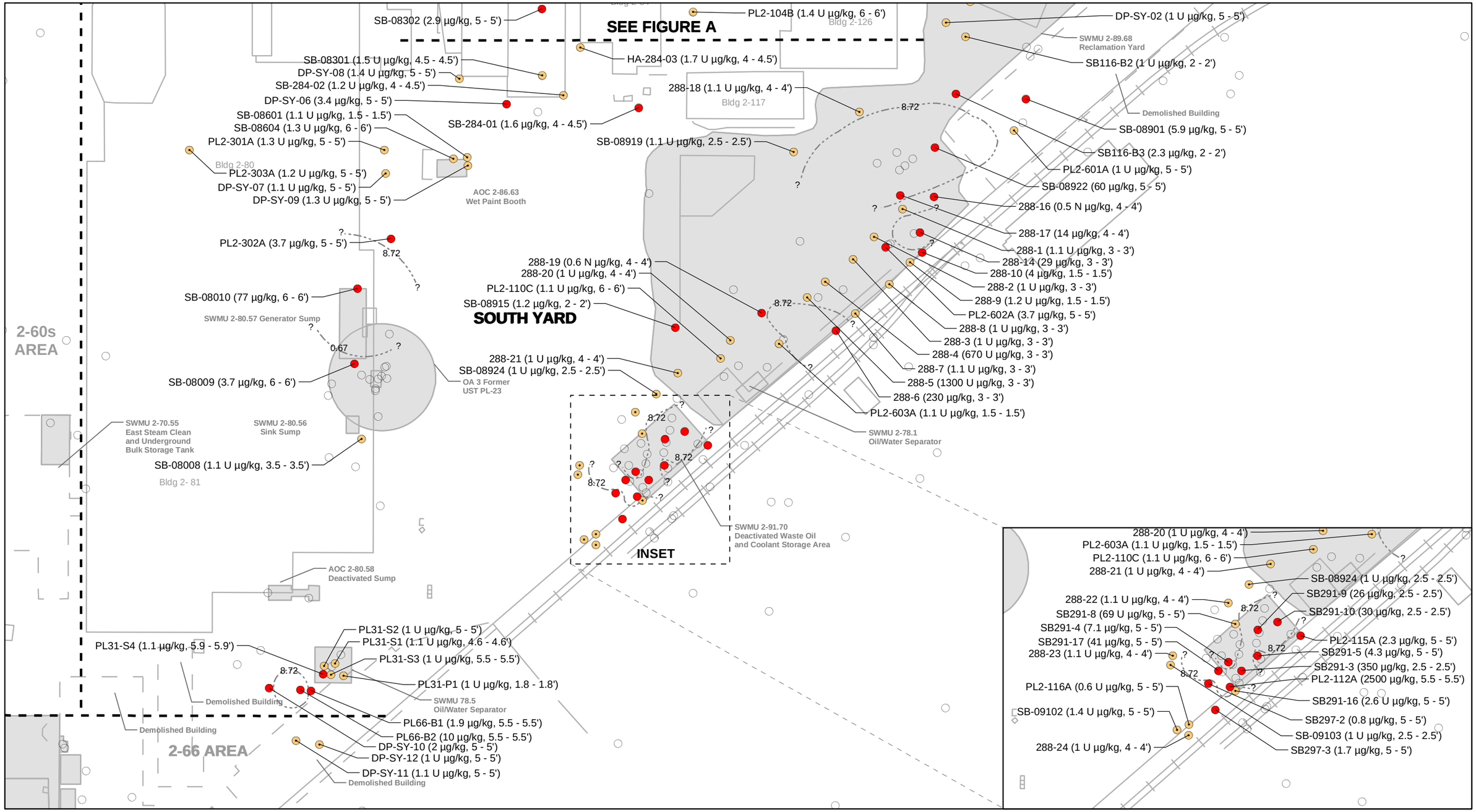
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TETRACHLOROETHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_TETRACHLOROETHENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 8.72 µg/kg
Proposed Media Cleanup Level (PMCL) = 890 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

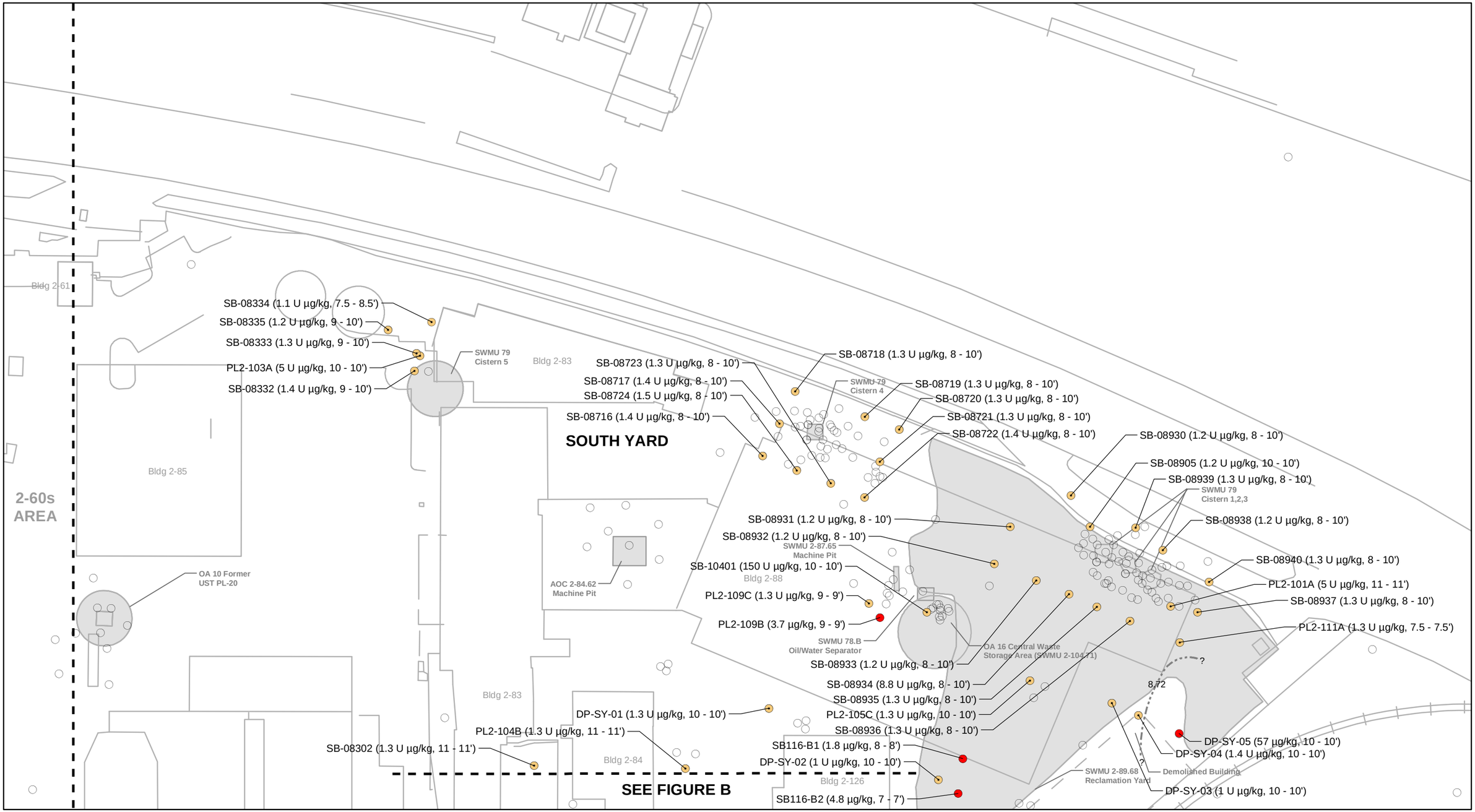
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TETRACHLOROETHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_TETRACHLOROETHENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 8.72 µg/kg
Proposed Media Cleanup Level (PMCL) = 890 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

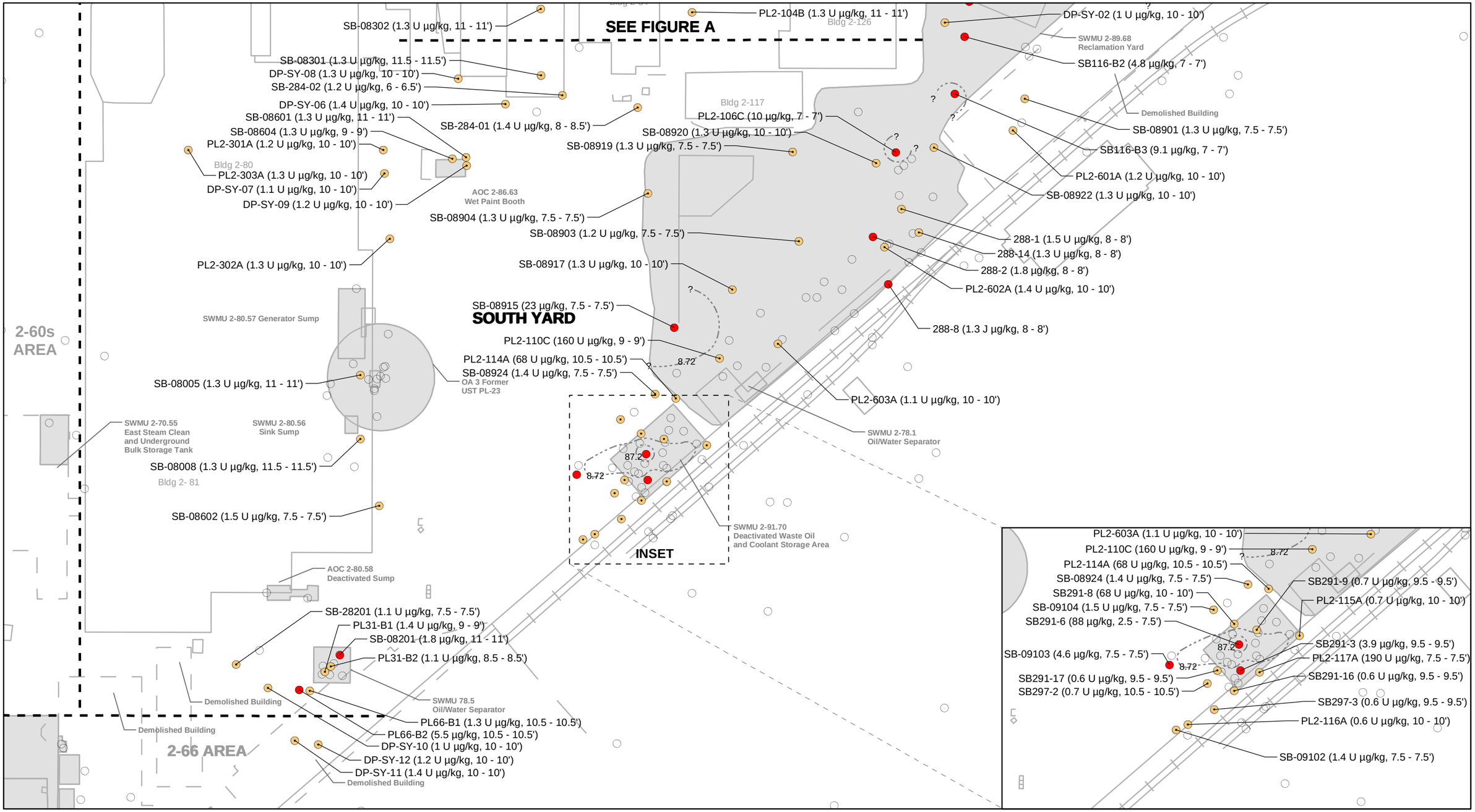
TETRACHLOROETHENE IN SOIL: DEPTH 6 - 12 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_TETRACHLOROETHENESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 8.72 µg/kg
Proposed Media Cleanup Level (PMCL) = 890 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

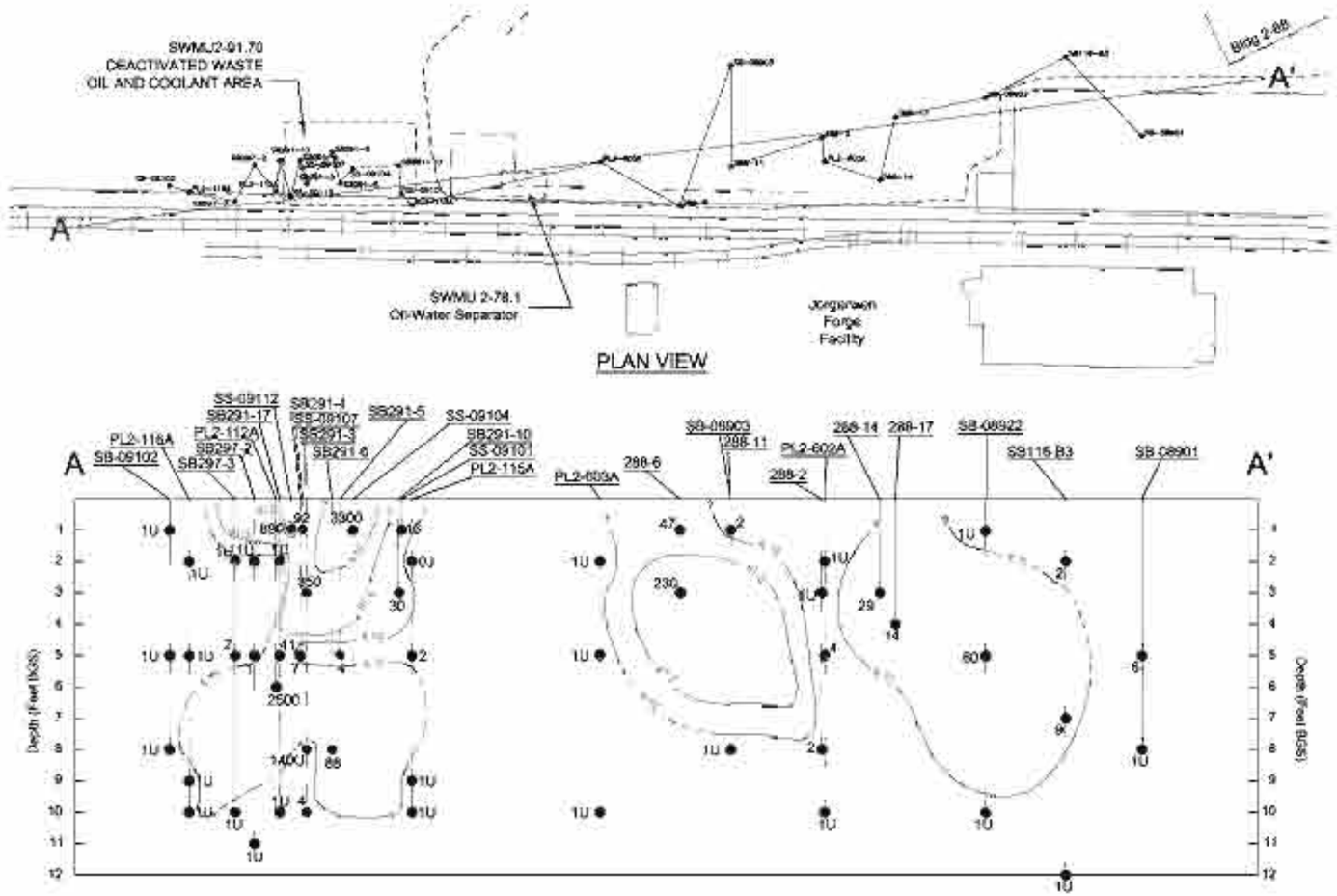
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TETRACHLOROETHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_TETRACHLOROETHENESY3B.mxd

Golder Associates



NOTE:
SOIL SCREENING LEVEL FOR
TETRACHLOROETHENE = 0.72 ug/kg
SOIL ISOCONCENTRATION CONTOUR (ug/kg)
● 1.2U SOIL SAMPLE CONCENTRATION (ug/kg)
APPROXIMATE WATER TABLE - March, 2005

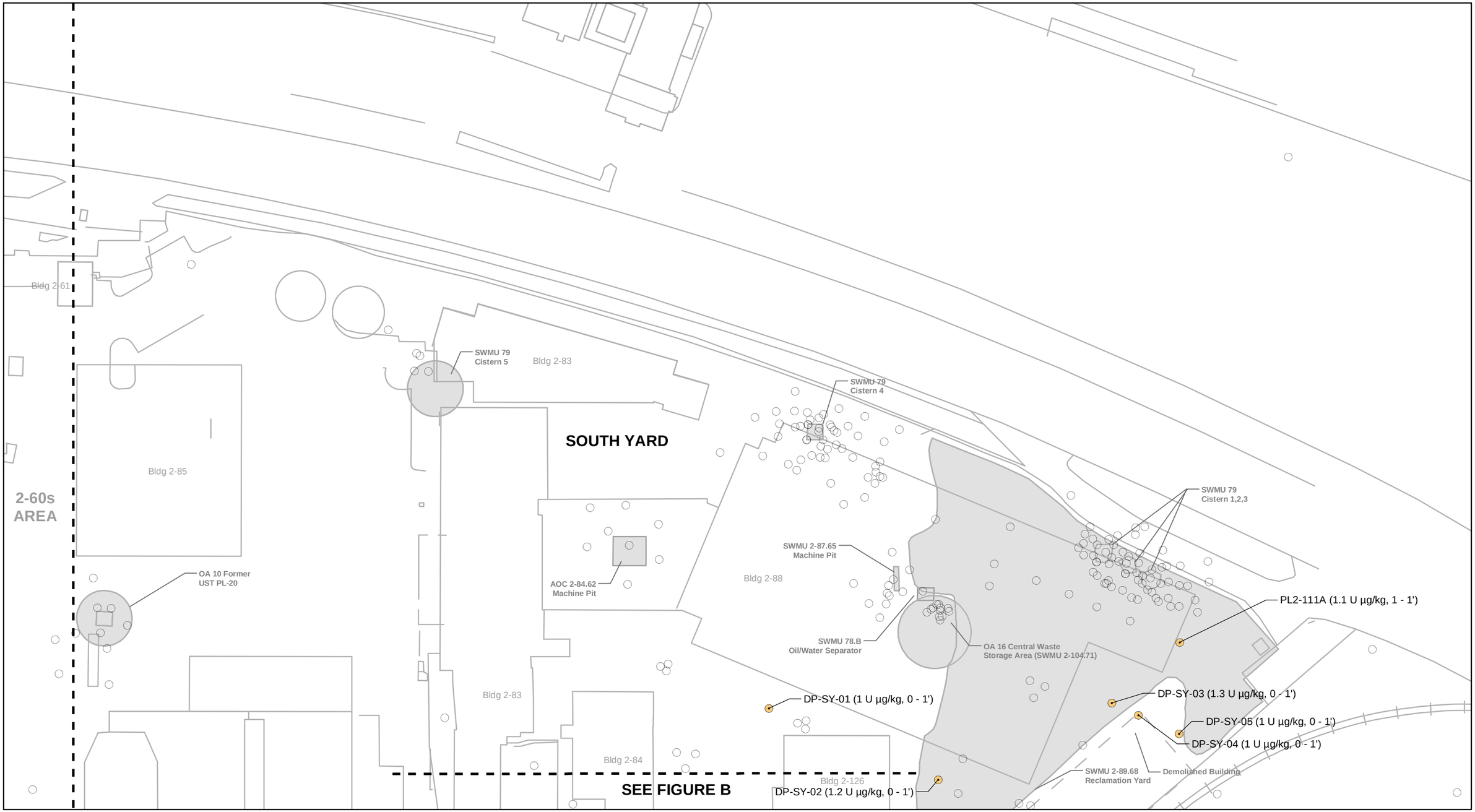
0 70
HORIZONTAL SCALE 1"=70'
15X VERTICAL EXAGGERATION

FIGURE **4**

SOUTH YARD AREA
TETRACHLOROETHENE IN SOIL CROSS-SECTION A-A'

BOEING PLANT 2

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19,000 µg/kg
Proposed Media Cleanup Level (PMCL) = 500,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

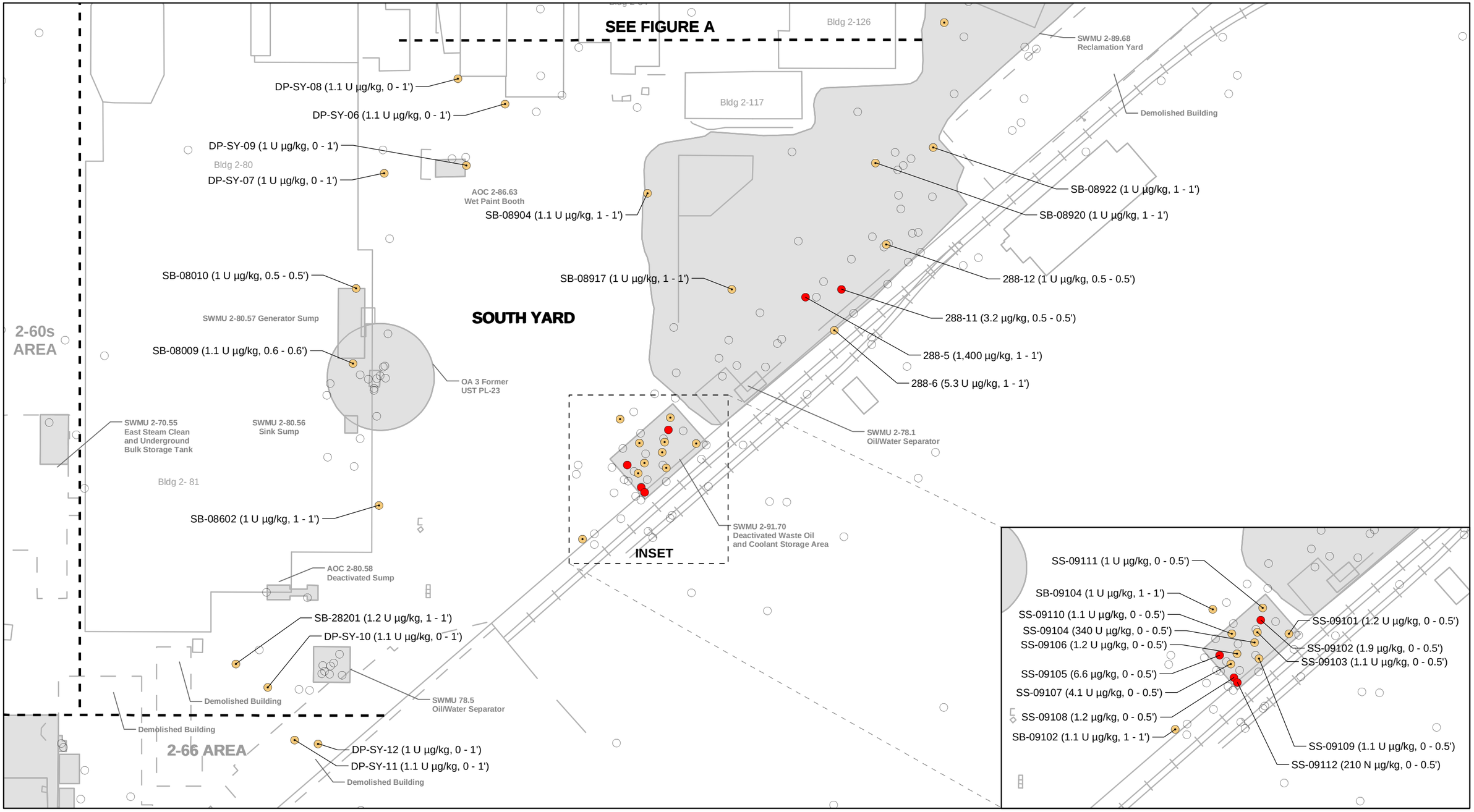
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TOLUENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

BoeingTemplate_A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19,000 µg/kg
Proposed Media Cleanup Level (PMCL) = 500,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

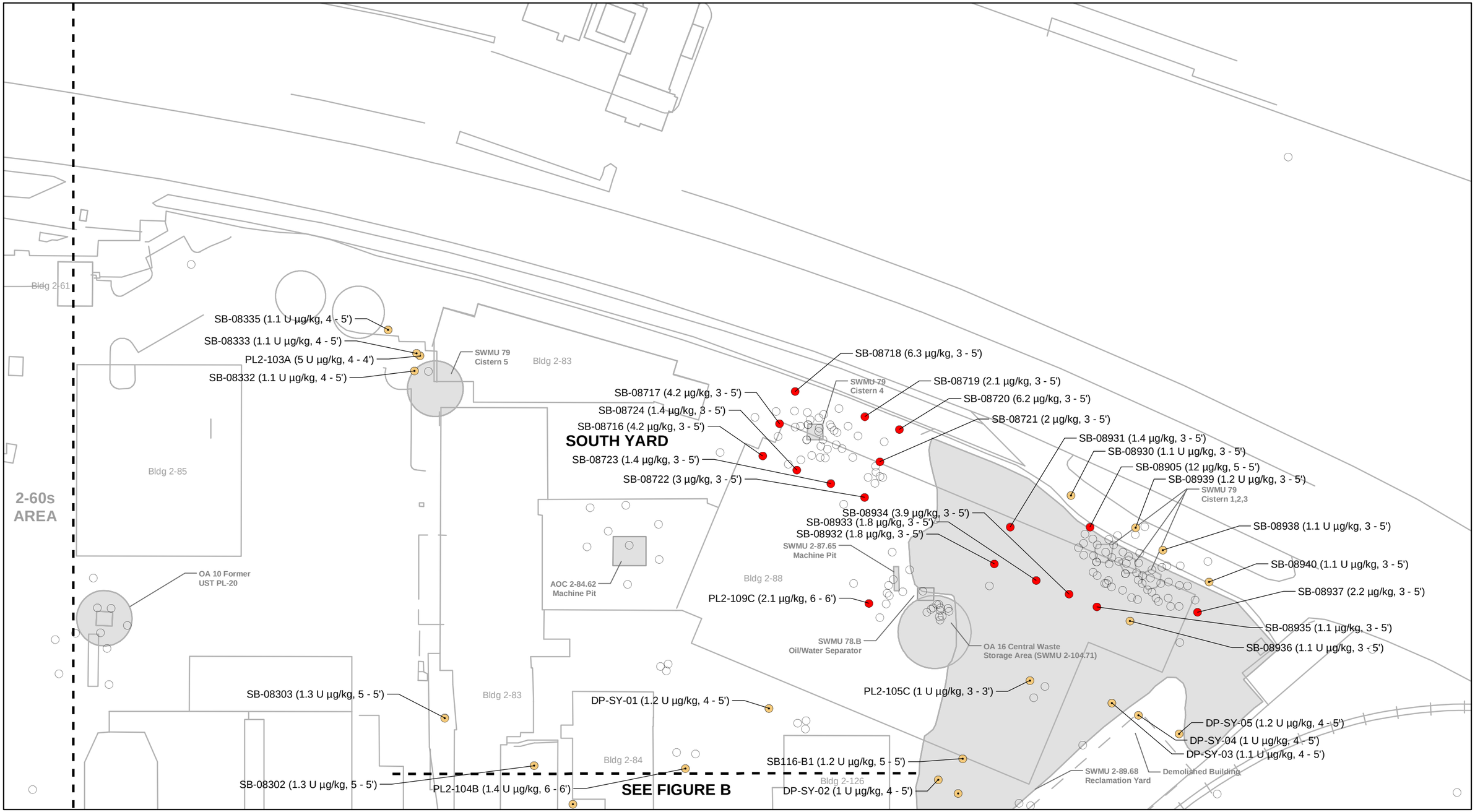
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TOLUENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

BoeingTemplate_B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19,000 µg/kg
Proposed Media Cleanup Level (PMCL) = 500,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TOLUENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

BoeingTemplate_A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

Bldg 2-117

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SOUTH YARD

2-60s
AREA

SWMU 2-80.57 Generator Sump

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

288-20 (1 U µg/kg, 4 - 4')
PL2-603A (1.1 U µg/kg, 0 - 1.5')
PL2-110C (1.1 U µg/kg, 6 - 6')
288-21 (1 U µg/kg, 4 - 4')
SB-08924 (1 U µg/kg, 2.5 - 2.5')
288-22 (1.1 µg/kg, 4 - 4')
SB291-8 (320 µg/kg, 5 - 5')
288-23 (1.1 U µg/kg, 4 - 4')
SB-09103 (1 U µg/kg, 2.5 - 2.5')
SB291-4 (1.7 µg/kg, 5 - 5')
SB291-17 (3 µg/kg, 5 - 5')
SB297-2 (1.2 µg/kg, 2 - 2')
PL2-112A (71 µg/kg, 5.5 - 5.5')
SB-09102 (1.7 µg/kg, 5 - 5')
PL2-116A (0.9 U µg/kg, 5 - 5')
288-24 (1 U µg/kg, 4 - 4')
SB291-10 (3 µg/kg, 2.5 - 2.5')
PL2-115A (2.5 µg/kg, 5 - 5')
SB291-9 (4.3 µg/kg, 5 - 5')
SB291-5 (19 µg/kg, 5 - 5')
SB291-3 (53 µg/kg, 2.5 - 2.5')
SB291-16 (140 µg/kg, 5 - 5')
SB297-3 (4.3 µg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19,000 µg/kg
Proposed Media Cleanup Level (PMCL) = 500,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

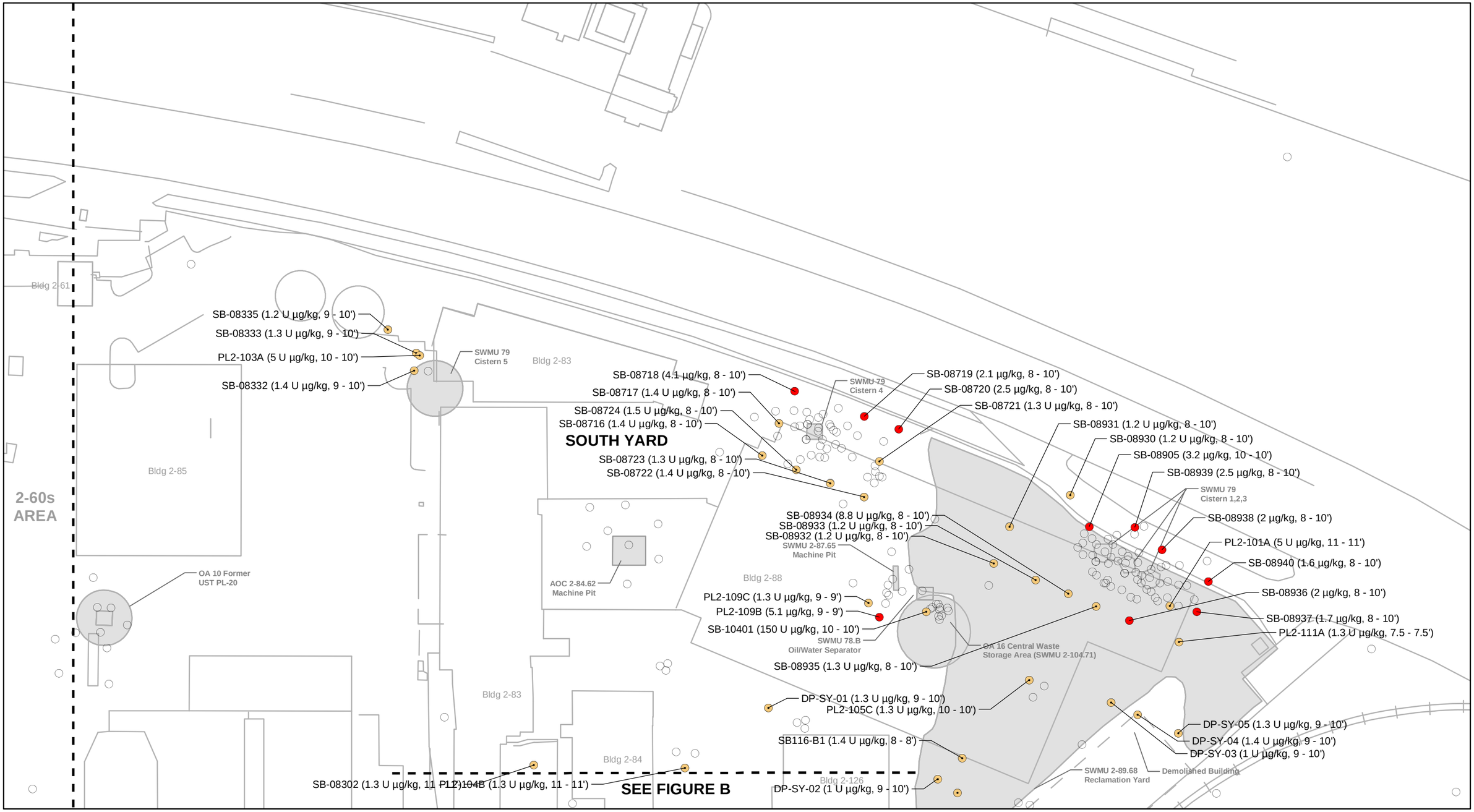
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TOLUENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

BoeingTemplate_B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19,000 µg/kg
Proposed Media Cleanup Level (PMCL) = 500,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TOLUENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

BoeingTemplate_A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68 Reclamation Yard

SB116-B2 (1.3 U µg/kg, 12 - 12')

SB116-B3 (1.3 N µg/kg, 7 - 7')

Demolished Building

SB-08901 (1.3 U µg/kg, 7.5 - 7.5')

PL2-601A (1.2 U µg/kg, 8.5 - 10')

DP-SY-08 (1.3 U µg/kg, 9 - 10')

SB-08301 (1.3 U µg/kg, 11.5 - 11.5')

SB-284-02 (1.2 U µg/kg, 6 - 6.5')

DP-SY-06 (1.4 U µg/kg, 9 - 10')

SB-284-01 (2.1 µg/kg, 8 - 8.5')

Bldg 2-117

SB-08922 (1.3 U µg/kg, 10 - 10')

PL2-106C (1.4 U µg/kg, 7 - 7')

SB-08919 (1.3 U µg/kg, 7.5 - 7.5')

SB-08920 (1.3 U µg/kg, 10 - 10')

288-1 (13 µg/kg, 8 - 8')

PL2-303A (1.3 U µg/kg, 10 - 10')

PL2-301A (1.2 U µg/kg, 10 - 10')

Bldg 2-80

DP-SY-07 (1.1 U µg/kg, 9 - 10')

SB-08604 (1.3 U µg/kg, 9 - 9')

SB-08601 (1.3 U µg/kg, 11 - 11')

DP-SY-09 (1.2 U µg/kg, 9 - 10')

PL2-302A (1.3 U µg/kg, 10 - 10')

AOC 2-86.63 Wet Paint Booth

SB-08904 (1.3 U µg/kg, 7.5 - 7.5')

SB-08903 (1.2 U µg/kg, 7.5 - 7.5')

288-14 (14 µg/kg, 8 - 8')

288-2 (2 µg/kg, 8 - 8')

PL2-602A (8.5 µg/kg, 8.5 - 10')

288-8 (15 µg/kg, 8 - 8')

SB-08917 (190 µg/kg, 7.5 - 7.5')

SB-08915 (9.7 µg/kg, 7.5 - 7.5')

SOUTH YARD

PL2-110C (11,000 µg/kg, 9 - 9')

PL2-603A (1.1 U µg/kg, 8.5 - 10')

SWMU 2-78.1 Oil/Water Separator

2-60s AREA

SWMU 2-80.57 Generator Sump

EX-3 (9,900 µg/kg, 8 - 8')

19,000

SB-08005 (1.3 U µg/kg, 11 - 11')

EX-1 (650,000 µg/kg, 8 - 8')

EX-5 (71 U µg/kg, 10.5 - 10.5')

OA 3 Former UST PL-23

SWMU 2-70.55 East Steam Clean and Underground Bulk Storage Tank

SWMU 2-80.56 Sink Sump

SB-08008 (1.3 U µg/kg, 11.5 - 11.5')

Bldg 2- 81

SB-08602 (1.5 U µg/kg, 7.5 - 7.5')

INSET

SWMU 2-91.70 Deactivated Waste Oil and Coolant Storage Area

AOC 2-80.58 Deactivated Sump

SB-28201 (1.1 U µg/kg, 7.5 - 7.5')

PL31-B1 (1.4 U µg/kg, 9 - 9')

PL31-B2 (1.1 U µg/kg, 8.5 - 8.5')

SB-08201 (1.3 U µg/kg, 8 - 8')

SWMU 78.5 Oil/Water Separator

Demolished Building

Demolished Building

PL66-B1 (1.3 U µg/kg, 10.5 - 10.5')

PL66-B2 (1.3 U µg/kg, 10.5 - 10.5')

DP-SY-10 (1 U µg/kg, 9 - 10')

DP-SY-12 (1.2 U µg/kg, 9 - 10')

DP-SY-11 (2.2 µg/kg, 9 - 10')

Demolished Building

2-66 AREA

PL2-603A (1.1 U µg/kg, 8.5 - 10')

PL2-110C (11,000 µg/kg, 9 - 9')

SB-08924 (650 D µg/kg, 7.5 - 7.5')

SB-09104 (620 D µg/kg, 7.5 - 7.5')

SB291-8 (140 µg/kg, 10 - 10')

SB291-9 (8.6 µg/kg, 9.5 - 9.5')

SB291-6 (57 µg/kg, 2.5 - 7.5')

SB-09103 (1.4 µg/kg, 7.5 - 7.5')

SB291-17 (0.7 N µg/kg, 9.5 - 9.5')

SB297-2 (0.8 N µg/kg, 10.5 - 10.5')

SB297-3 (1 U µg/kg, 9.5 - 9.5')

SB-09102 (1.4 U µg/kg, 7.5 - 7.5')

PL2-116A (1 U µg/kg, 8.5 - 8.5')

PL2-114A (5,600 µg/kg, 10.5 - 10.5')

PL2-115A (11 µg/kg, 10 - 10')

PL2-117A (530 µg/kg, 7.5 - 7.5')

SB291-3 (330 µg/kg, 7.5 - 7.5')

SB291-16 (1.1 µg/kg, 9.5 - 9.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70

Scale 1" = 70 Feet

Map Projection: Washington State Plane North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 19,000 µg/kg
Proposed Media Cleanup Level (PMCL) = 500,000 µg/kg (Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)

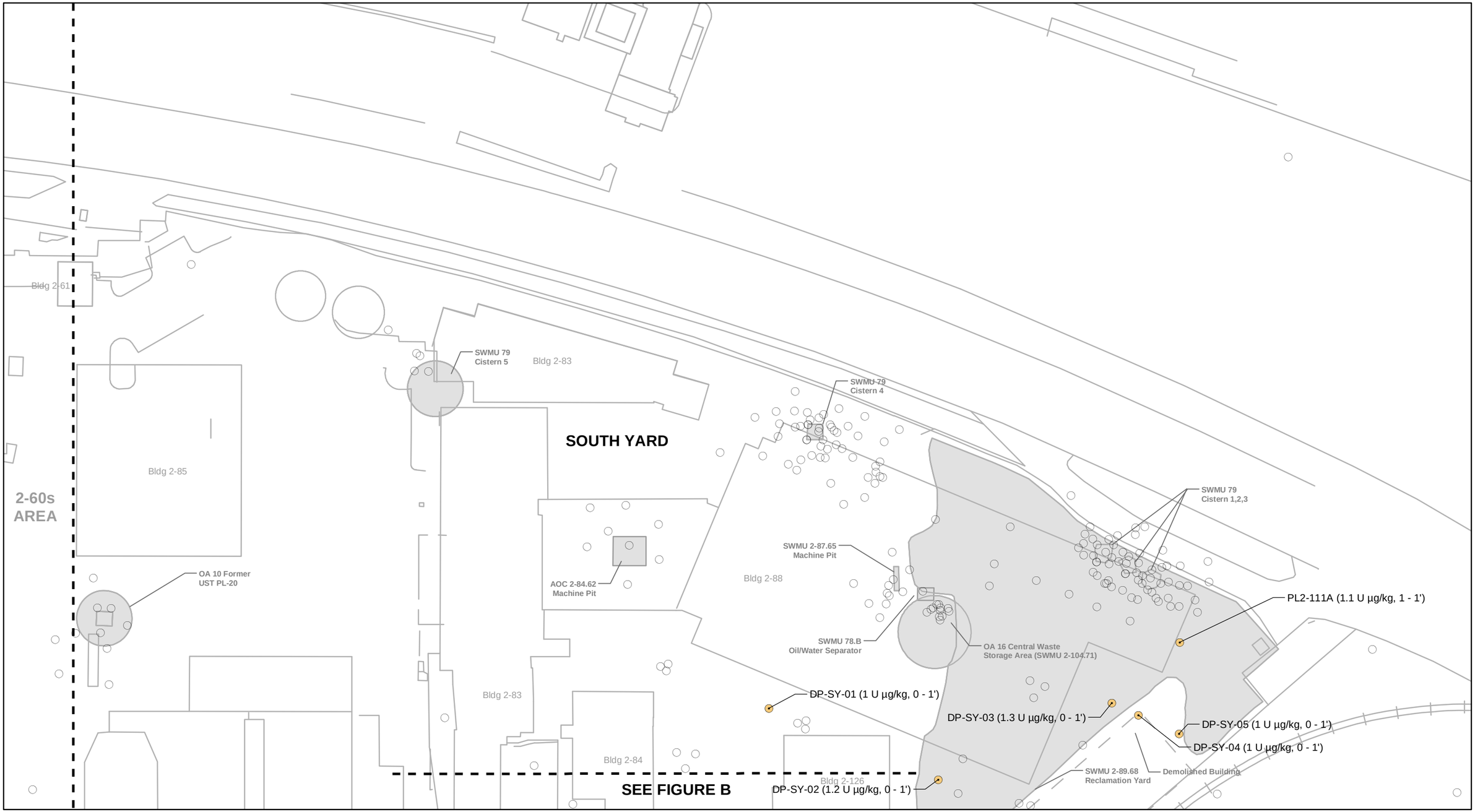
TOLUENE IN SOIL: DEPTH 6 - 12 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

BoeingTemplate_B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 27,800 µg/kg
Proposed Media Cleanup Level (PMCL) = 3,120,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
1,1,1-TRICHLOROETHANE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_111TRICHLOROETHENESY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-117

DP-SY-08 (1.1 U µg/kg, 0 - 1')
DP-SY-06 (1.1 U µg/kg, 0 - 1')

SB-08920 (1 U µg/kg, 1 - 1')

SB-08922 (1 U µg/kg, 1 - 1')

Bldg 2-80

DP-SY-07 (1 U µg/kg, 0 - 1')

DP-SY-09 (1 U µg/kg, 0 - 1')

AOC 2-86.63
Wet Paint Booth

SB-08904 (1.1 U µg/kg, 1 - 1')

SB-08917 (1 U µg/kg, 1 - 1')

288-12 (1 U µg/kg, 0.5 - 0.5')

288-11 (1.2 U µg/kg, 0.5 - 0.5')

288-5 (1,400 U µg/kg, 1 - 1')

288-6 (5.3 U µg/kg, 1 - 1')

SB-08010 (1 U µg/kg, 0.5 - 0.5')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08009 (1.1 U µg/kg, 0.6 - 0.6')

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2-81

SB-08602 (1 U µg/kg, 1 - 1')

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-28201 (1.2 U µg/kg, 1 - 1')

DP-SY-10 (1.1 U µg/kg, 0 - 1')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

DP-SY-12 (1 U µg/kg, 0 - 1')

DP-SY-11 (1.2 µg/kg, 0 - 1')

Demolished Building

SB-09104 (1 U µg/kg, 1 - 1')
SS-09102 (140 D µg/kg, 0 - 0.5')
SS-09110 (36 µg/kg, 0 - 0.5')
SS-09104 (20,000 µg/kg, 0 - 0.5')
SS-09105 (630 D µg/kg, 0 - 0.5')
SS-09107 (270 µg/kg, 0 - 0.5')
SS-09108 (9.7 µg/kg, 0 - 0.5')
SS-09112 (19,000 µg/kg, 0 - 0.5')
SB-09102 (1.1 U µg/kg, 1 - 1')

SS-09111 (1 U µg/kg, 0 - 0.5')

SS-09101 (17 µg/kg, 0 - 0.5')
SS-09103 (7.3 µg/kg, 0 - 0.5')

SS-09109 (1.1 U µg/kg, 0 - 0.5')
SS-09106 (5.4 µg/kg, 0 - 0.5')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 27,800 µg/kg
Proposed Media Cleanup Level (PMCL) = 3,120,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

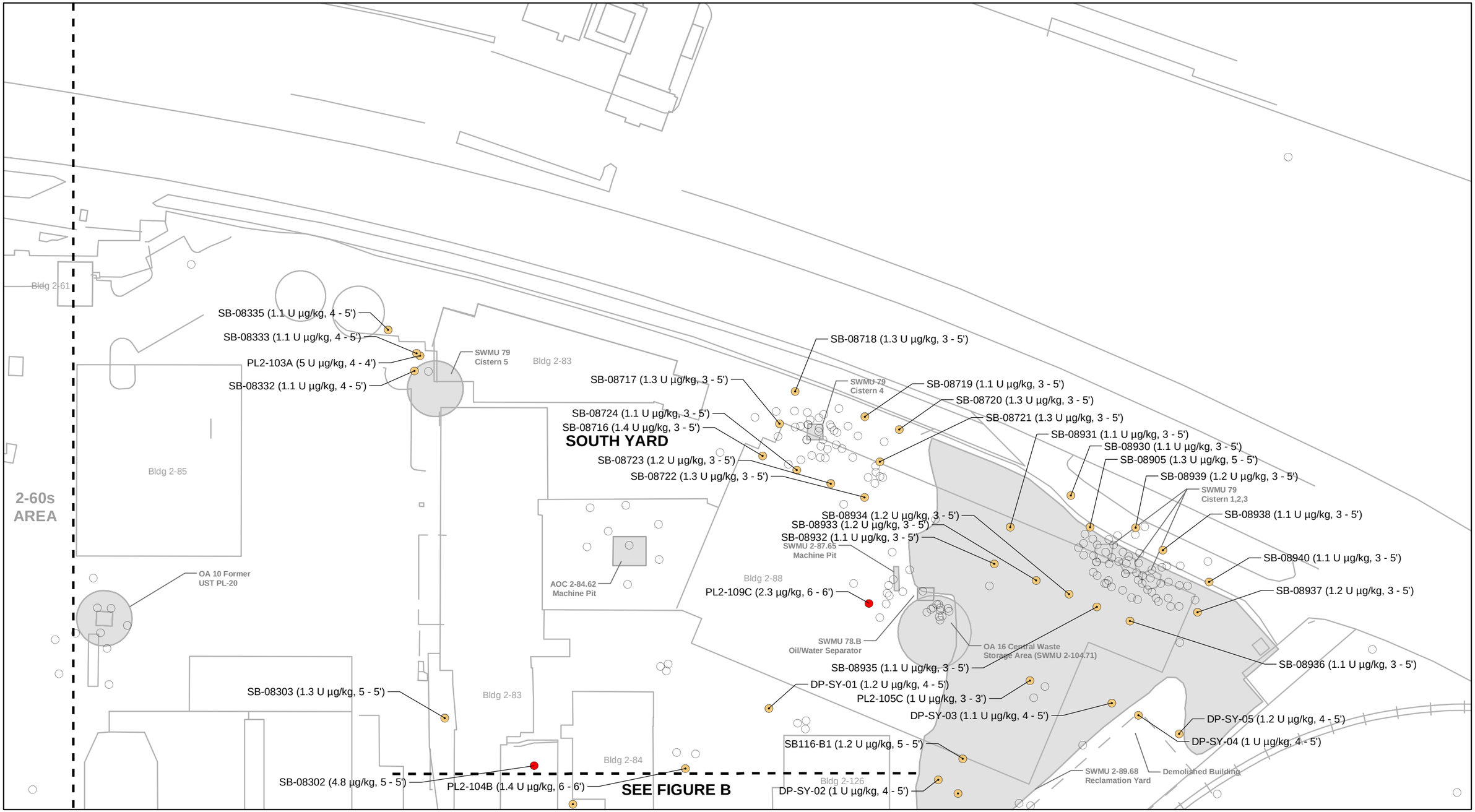
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
1,1,1-TRICHLOROETHANE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_111TRICHLOROETHENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 27,800 µg/kg
Proposed Media Cleanup Level (PMCL) = 3,120,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

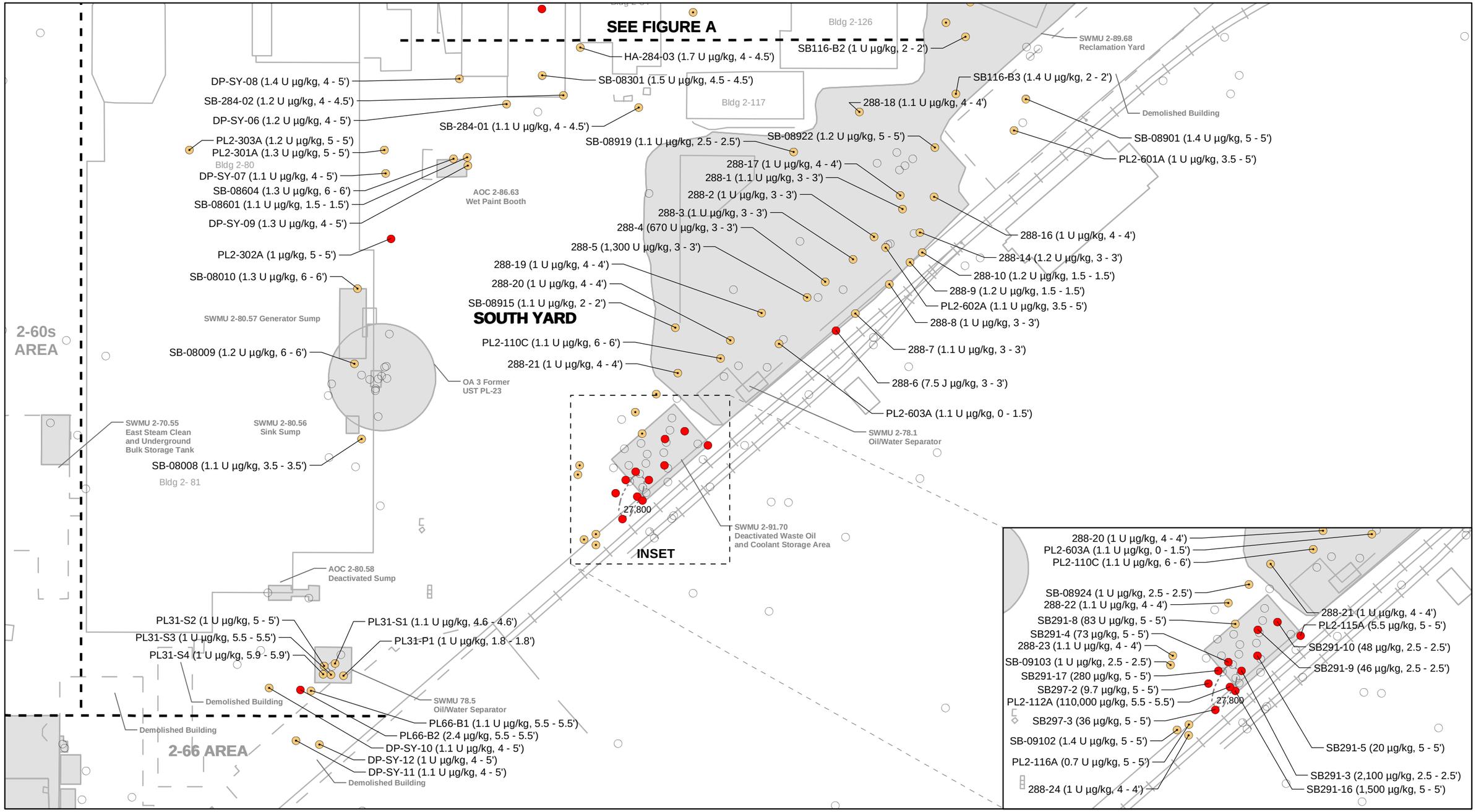
1,1,1-TRICHLOROETHANE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_111TRICHLOROETHENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 27,800 µg/kg
Proposed Media Cleanup Level (PMCL) = 3,120,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

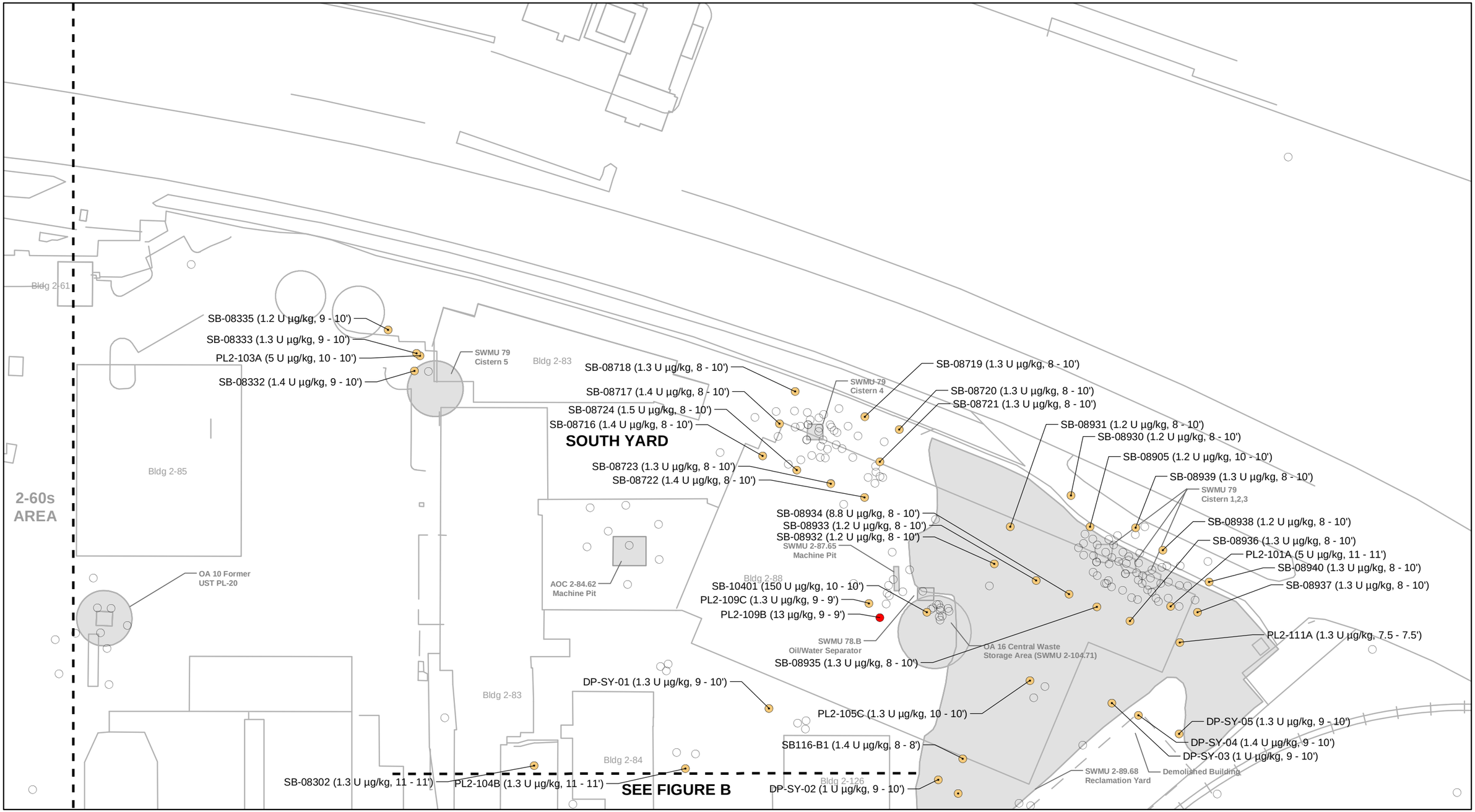
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
1,1,1-TRICHLOROETHANE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_111TRICHLOROETHENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 27,800 µg/kg
Proposed Media Cleanup Level (PMCL) = 3,120,000 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

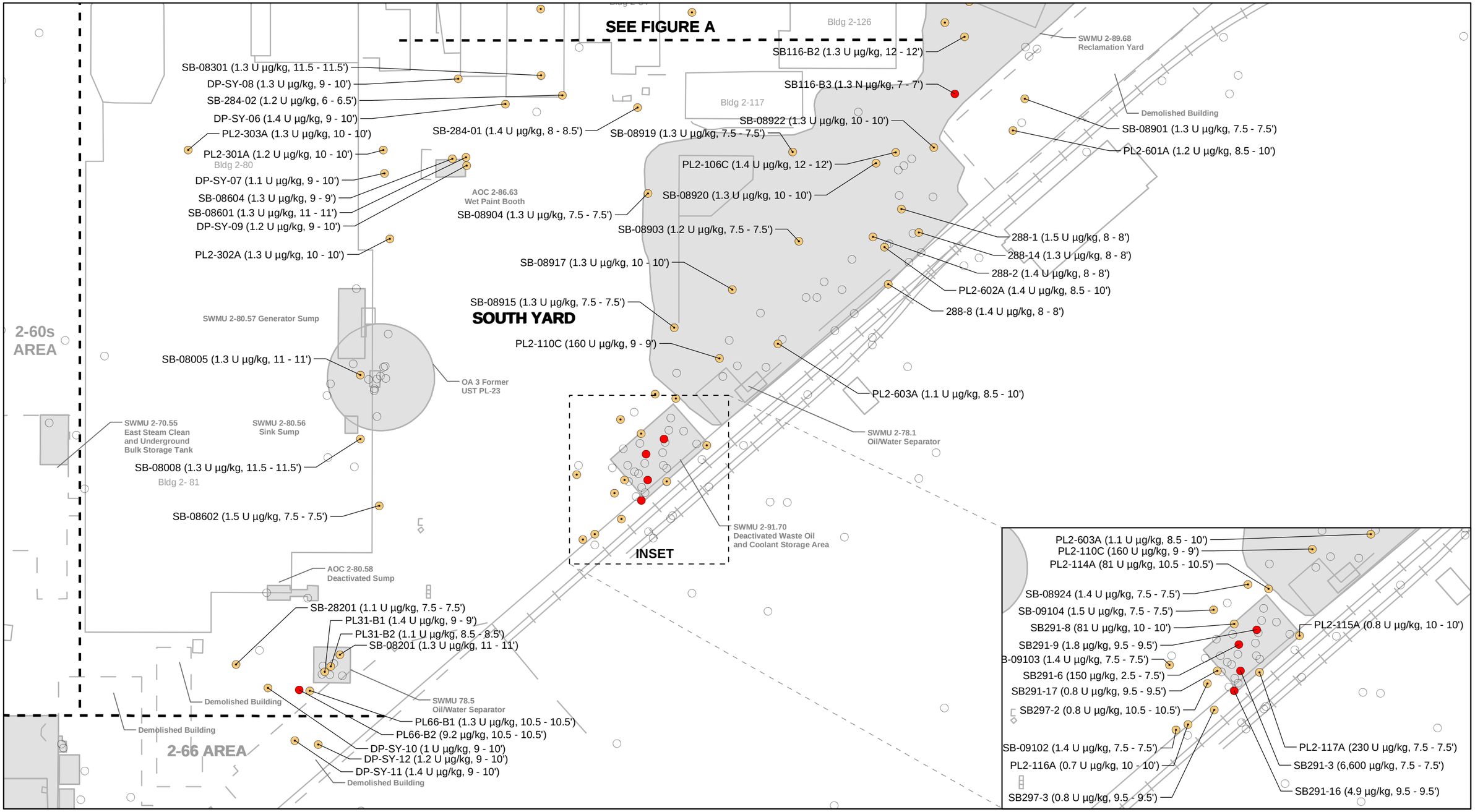
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
1,1,1-TRICHLOROETHANE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_111TRICHLOROETHENESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 27,800 µg/kg
Proposed Media Cleanup Level (PMCL) = 3,120,000 µg/kg (Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

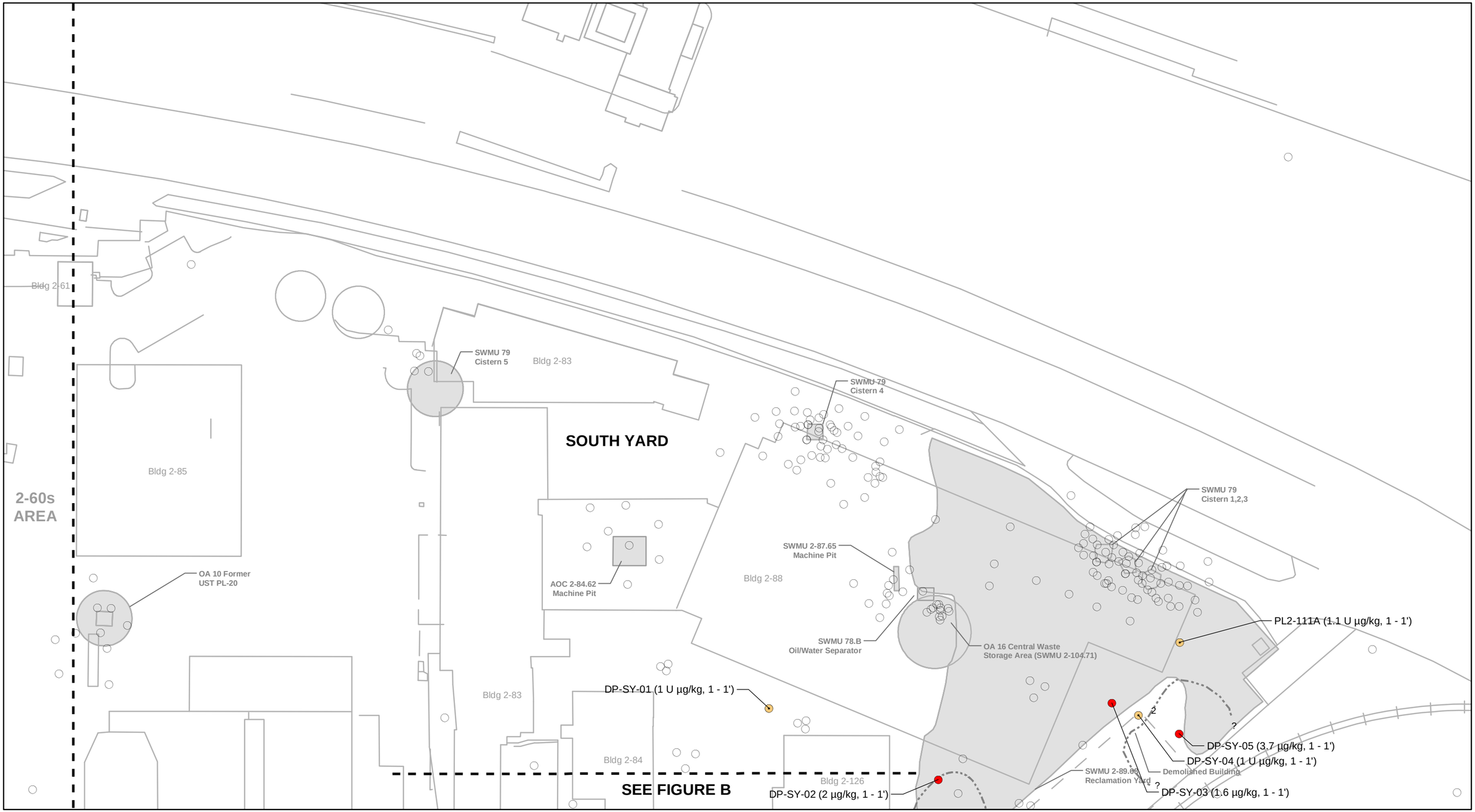
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
1,1,1-TRICHLOROETHANE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_111TRICHLOROETHENESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2 µg/kg
Proposed Media Cleanup Level (PMCL) = 5,500µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TRICHLOROETHENE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_TRICHLOROETHENESY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

DP-SY-02 (2 µg/kg, 1 - 1')

SWMU 2-89.68 Reclamation Yard

DP-SY-08 (1.1 U µg/kg, 1 - 1')

DP-SY-06 (1.1 U µg/kg, 1 - 1')

Bldg 2-117

Demolished Building

Bldg 2-80

DP-SY-07 (1 U µg/kg, 1 - 1')

DP-SY-09 (1 U µg/kg, 1 - 1')

AOC 2-86.63 Wet Paint Booth

SB-08904 (1.1 U µg/kg, 1 - 1')

SB-08922 (3.9 µg/kg, 1 - 1')

SB-08920 (1 U µg/kg, 1 - 1')

288-12 (1 U µg/kg, 0.5 - 0.5')

SB-08917 (1 U µg/kg, 1 - 1')

SB-08010 (1 U µg/kg, 0.5 - 0.5')

288-11 (29 µg/kg, 0.5 - 0.5')

288-5 (1400 U µg/kg, 1 - 1')

288-6 (22 µg/kg, 1 - 1')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s AREA

SB-08009 (1.1 U µg/kg, 0.6 - 0.6')

OA 3 Former UST PL-23

SWMU 2-70.55 East Steam Clean and Underground Bulk Storage Tank

SWMU 2-80.56 Sink Sump

SWMU 2-78.1 Oil/Water Separator

Bldg 2- 81

SB-08602 (1 U µg/kg, 1 - 1')

SWMU 2-91.70 Deactivated Waste Oil and Coolant Storage Area

INSET

AOC 2-80.58 Deactivated Sump

SB-28201 (1.2 U µg/kg, 1 - 1')

Demolished Building

SWMU 78.5 Oil/Water Separator

DP-SY-10 (1.2 µg/kg, 1 - 1')

Demolished Building

2-66 AREA

DP-SY-12 (1 U µg/kg, 1 - 1')

DP-SY-11 (4 µg/kg, 1 - 1')

Demolished Building

SS-09111 (3 µg/kg, 0 - 0.5')

SB-09104 (1.9 µg/kg, 1 - 1')

SS-09102 (140 D µg/kg, 0 - 0.5')

SS-09110 (77 µg/kg, 0 - 0.5')

SS-09103 (37 µg/kg, 0 - 0.5')

SS-09101 (5.2 µg/kg, 0 - 0.5')

SS-09105 (450 D µg/kg, 0 - 0.5')

SS-09104 (7600 J µg/kg, 0 - 0.5')

SS-09109 (1.1 U µg/kg, 0 - 0.5')

SS-09107 (52 µg/kg, 0 - 0.5')

SS-09106 (21 µg/kg, 0 - 0.5')

SS-09108 (2.5 µg/kg, 0 - 0.5')

SS-09112 (220 N µg/kg, 0 - 0.5')

SB-09102 (1.1 U µg/kg, 1 - 1')

LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70

Scale 1" = 70 Feet

Map Projection: Washington State Plane North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2 µg/kg
Proposed Media Cleanup Level (PMCL) = 5,500µg/kg (Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)

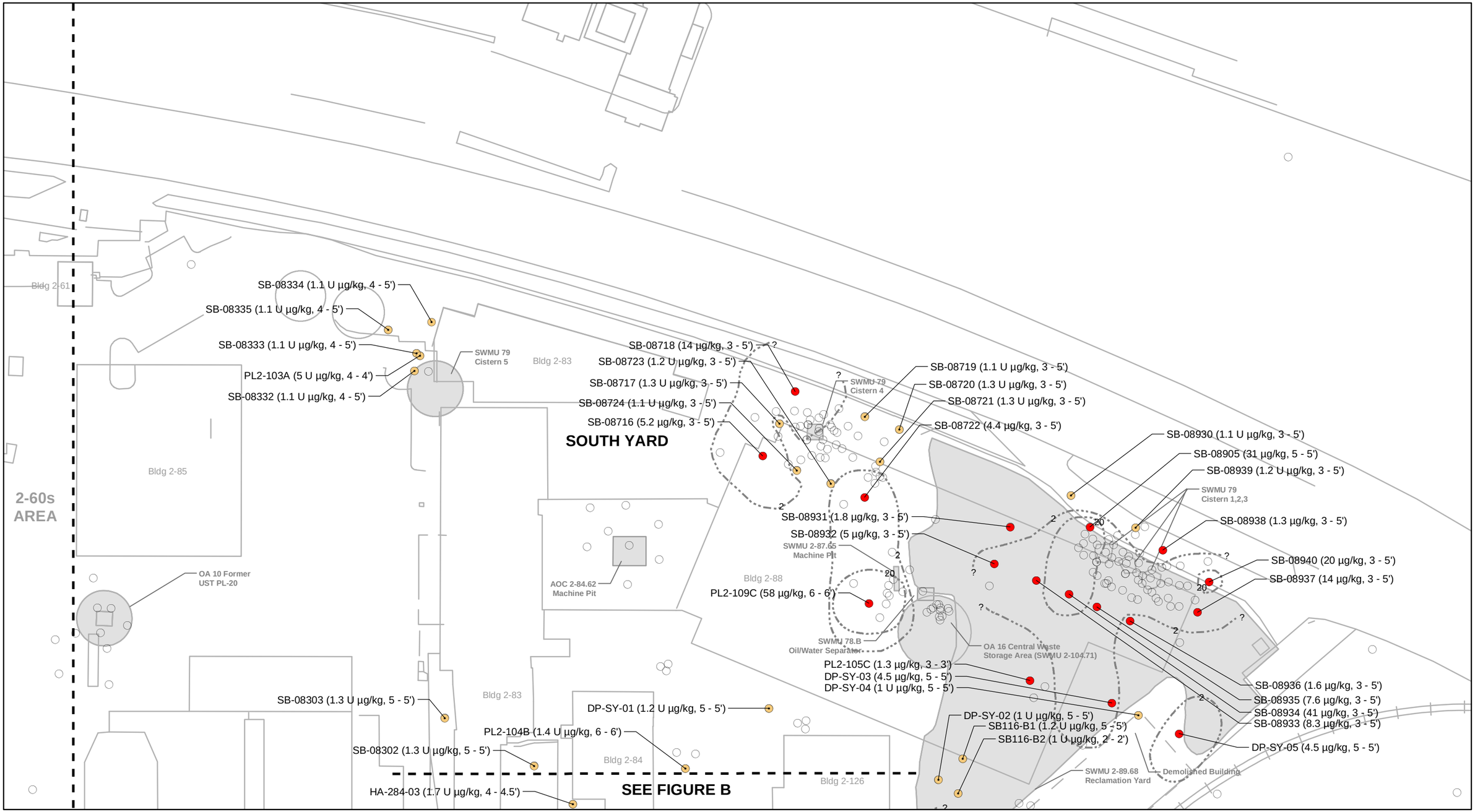
TRICHLOROETHENE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_TRICHLOROETHENESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2 µg/kg
Proposed Media Cleanup Level (PMCL) = 5,500µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

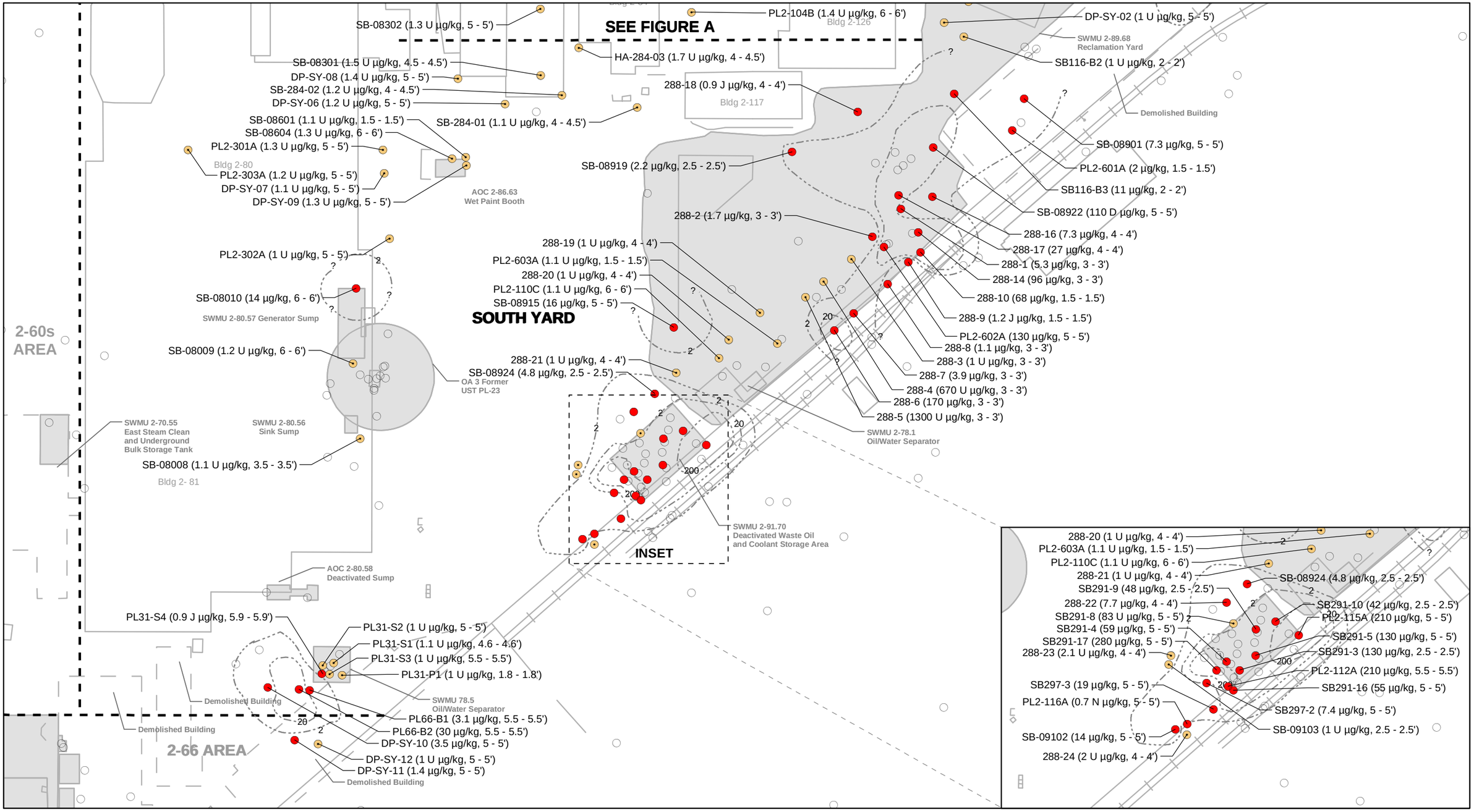
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TRICHLOROETHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_TRICHLOROETHENESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2 µg/kg
Proposed Media Cleanup Level (PMCL) = 5,500µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

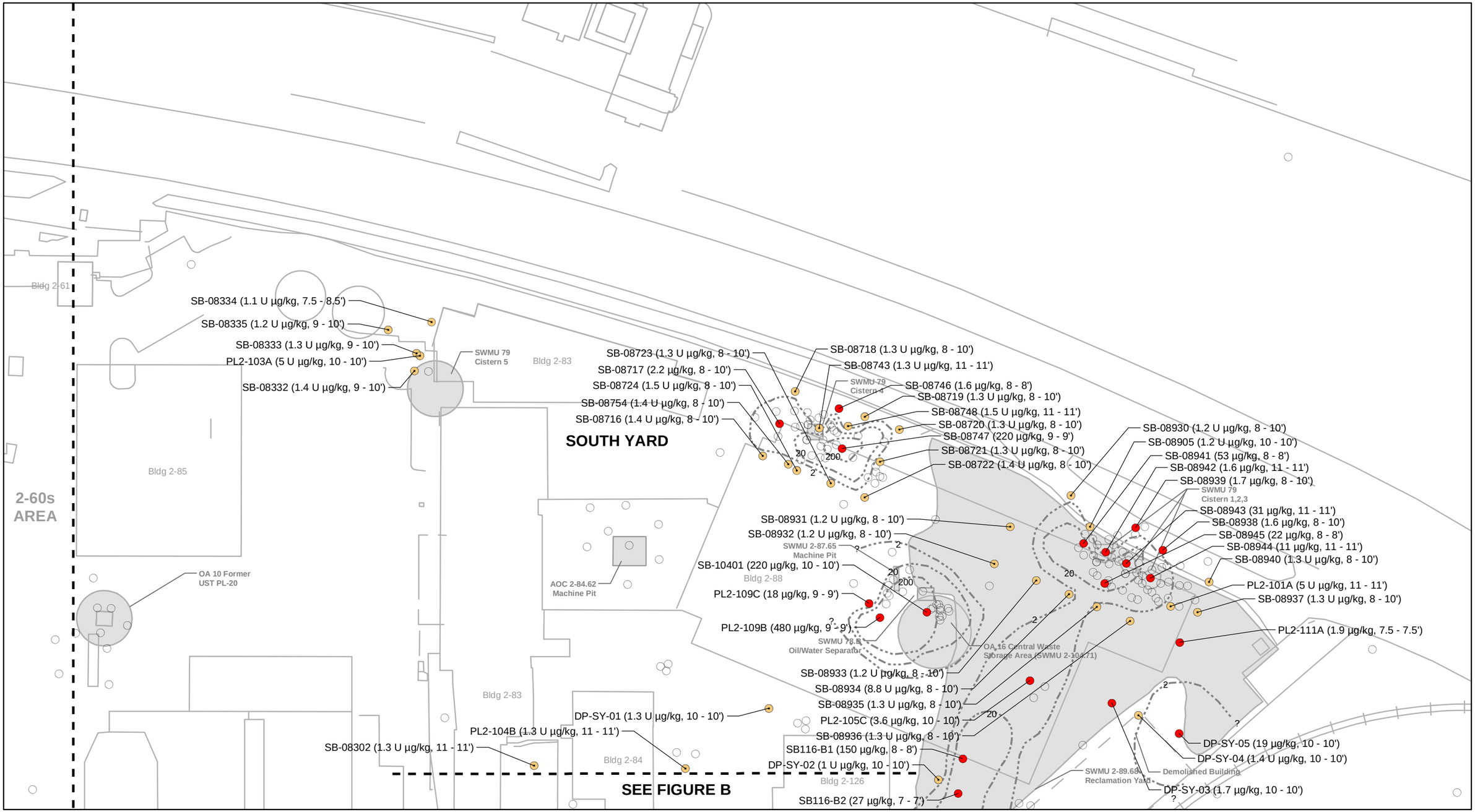
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TRICHLOROETHENE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_TRICHLOROETHENESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2 µg/kg
Proposed Media Cleanup Level (PMCL) = 5,500µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

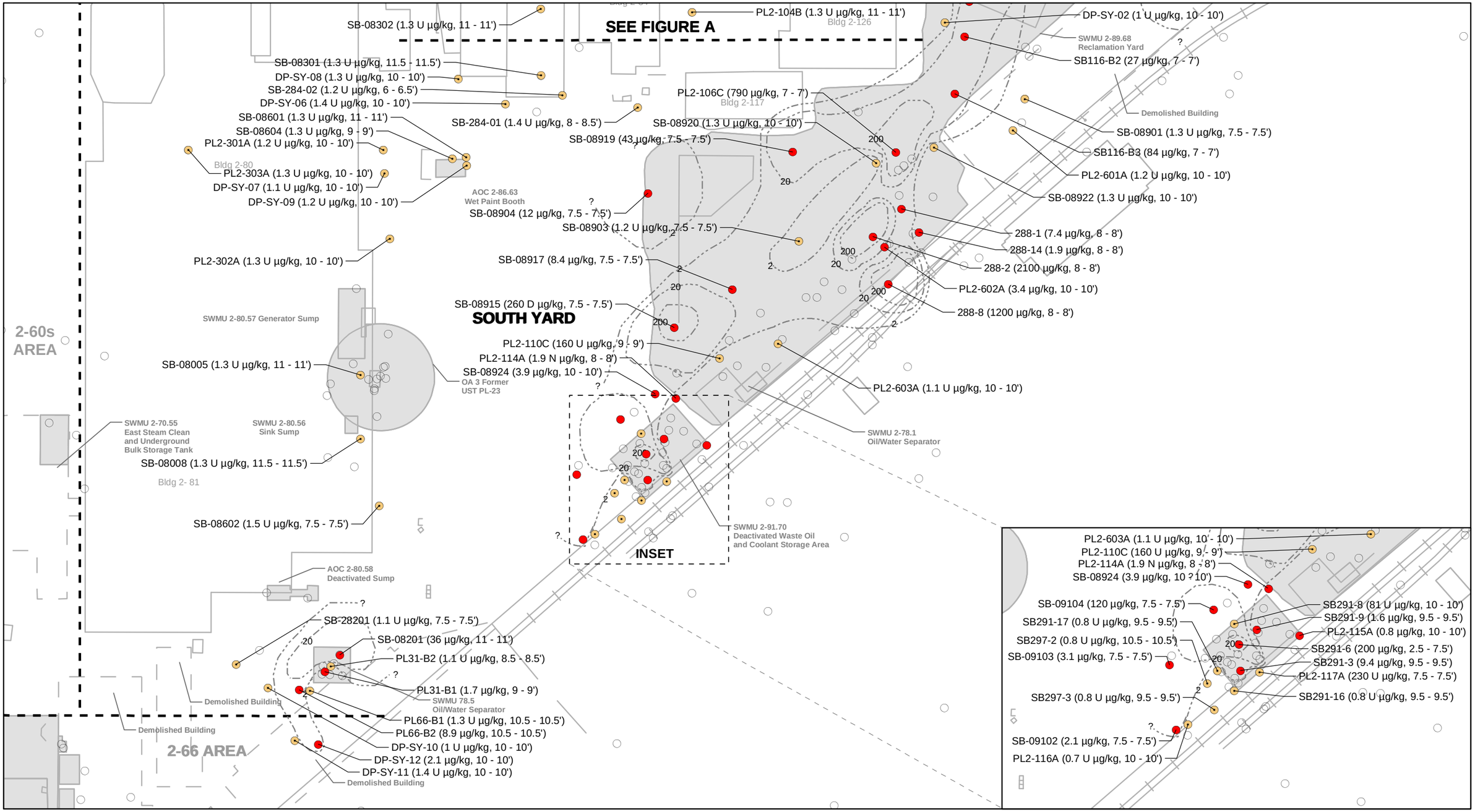
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
TRICHLOROETHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_TRICHLOROETHENESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2 µg/kg
Proposed Media Cleanup Level (PMCL) = 5,500µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

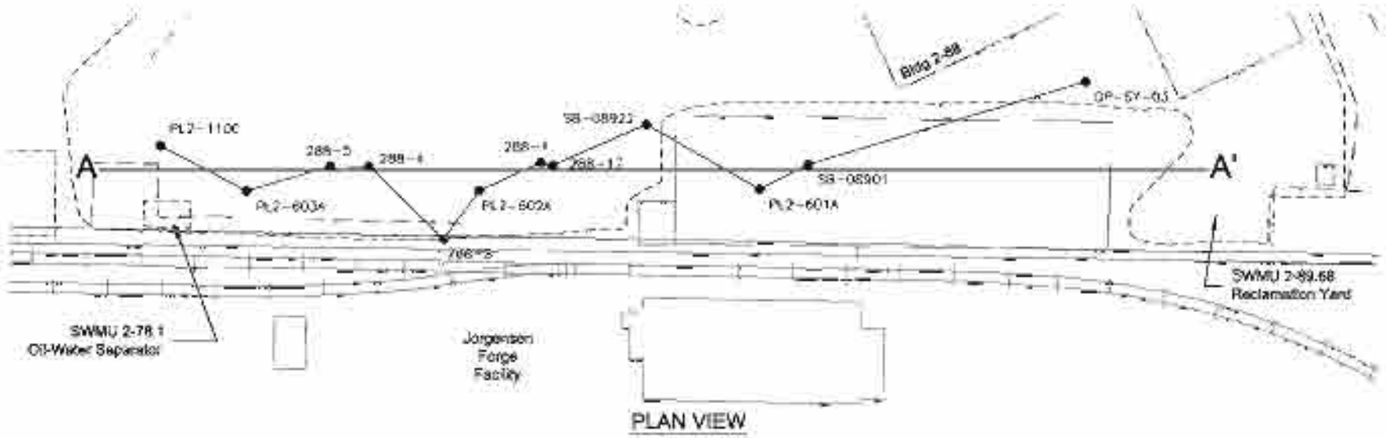
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

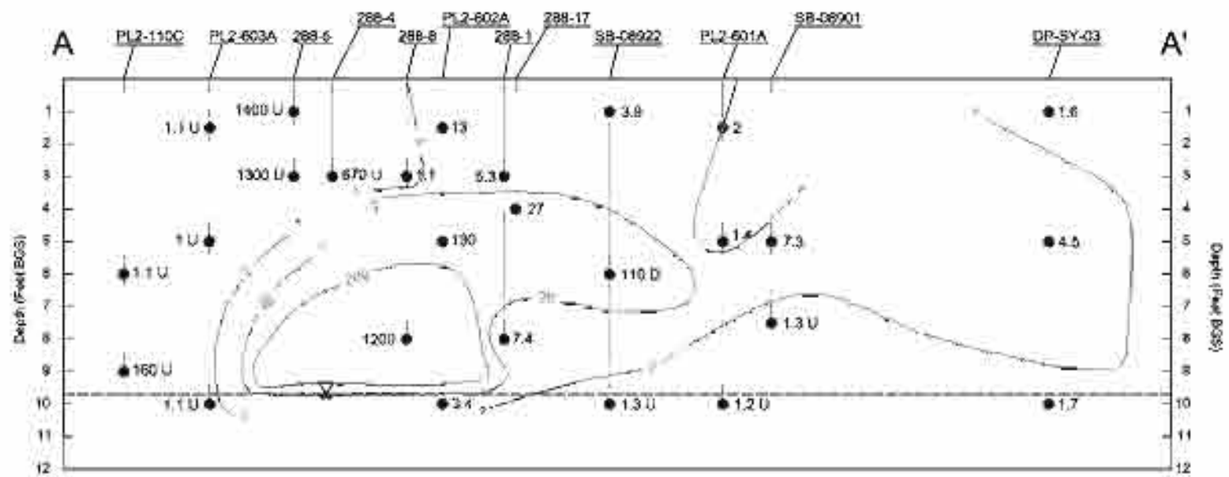
SOUTH YARD AREA (WEST)
TRICHLOROETHENE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_TRICHLOROETHENESY3B.mxd

Golder Associates





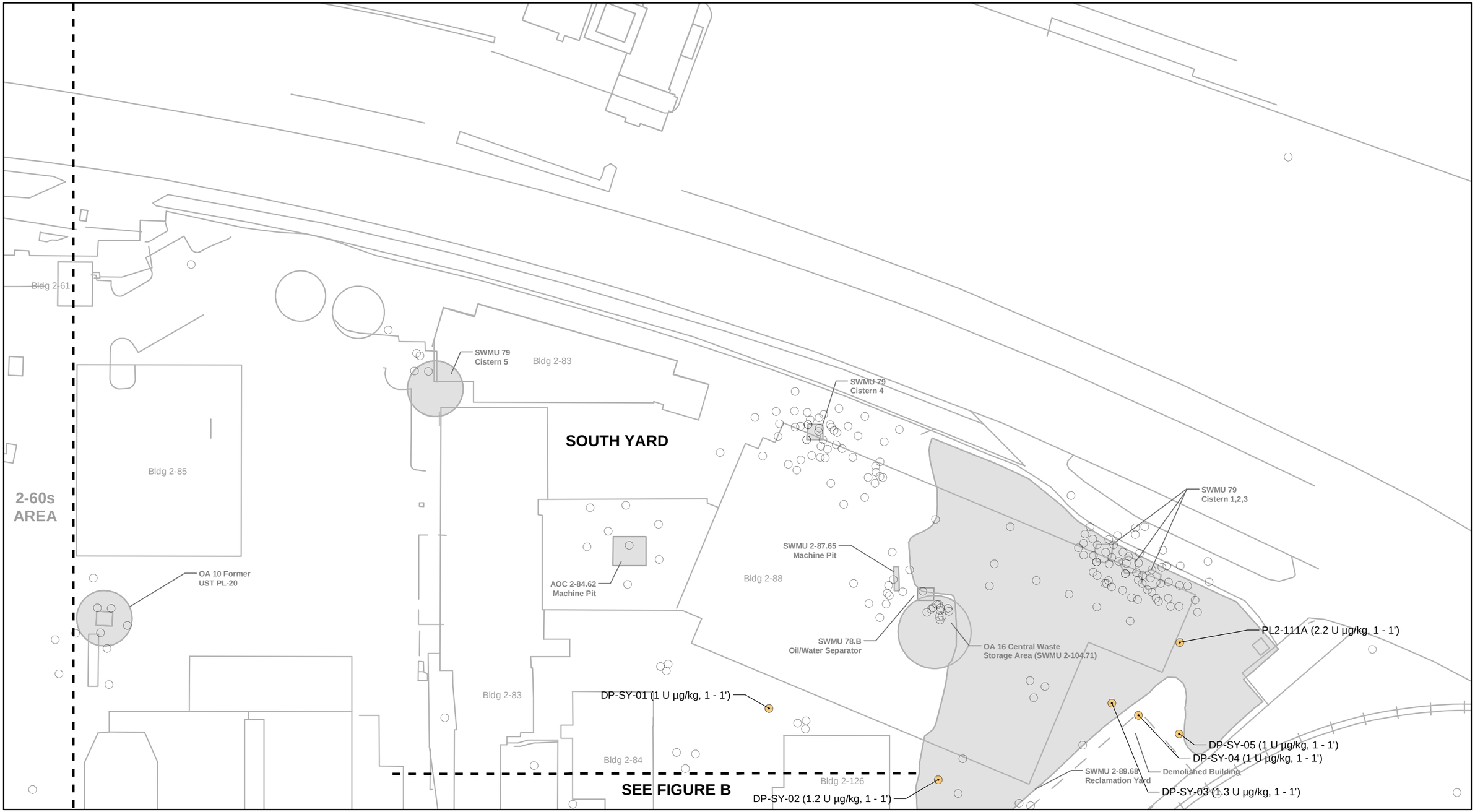
NOTE
U QUALIFIED VALUES INTERPRETED AT 1/2 STATED VALUE
SOIL SCREENING LEVEL FOR TCE = 2.0 µg/kg
SOIL ISOCONCENTRATION CONTOUR (µg/kg)

WATER TABLE

0 70
HORIZONTAL SCALE 1"=70'
15X VERTICAL EXAGGERATION

FIGURE 4
SOUTH YARD AREA
TRICHLOROETHENE IN SOIL CROSS-SECTION A-A'
BOEING PLANT 2

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 4.59 µg/kg
Proposed Media Cleanup Level (PMCL) = 290 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

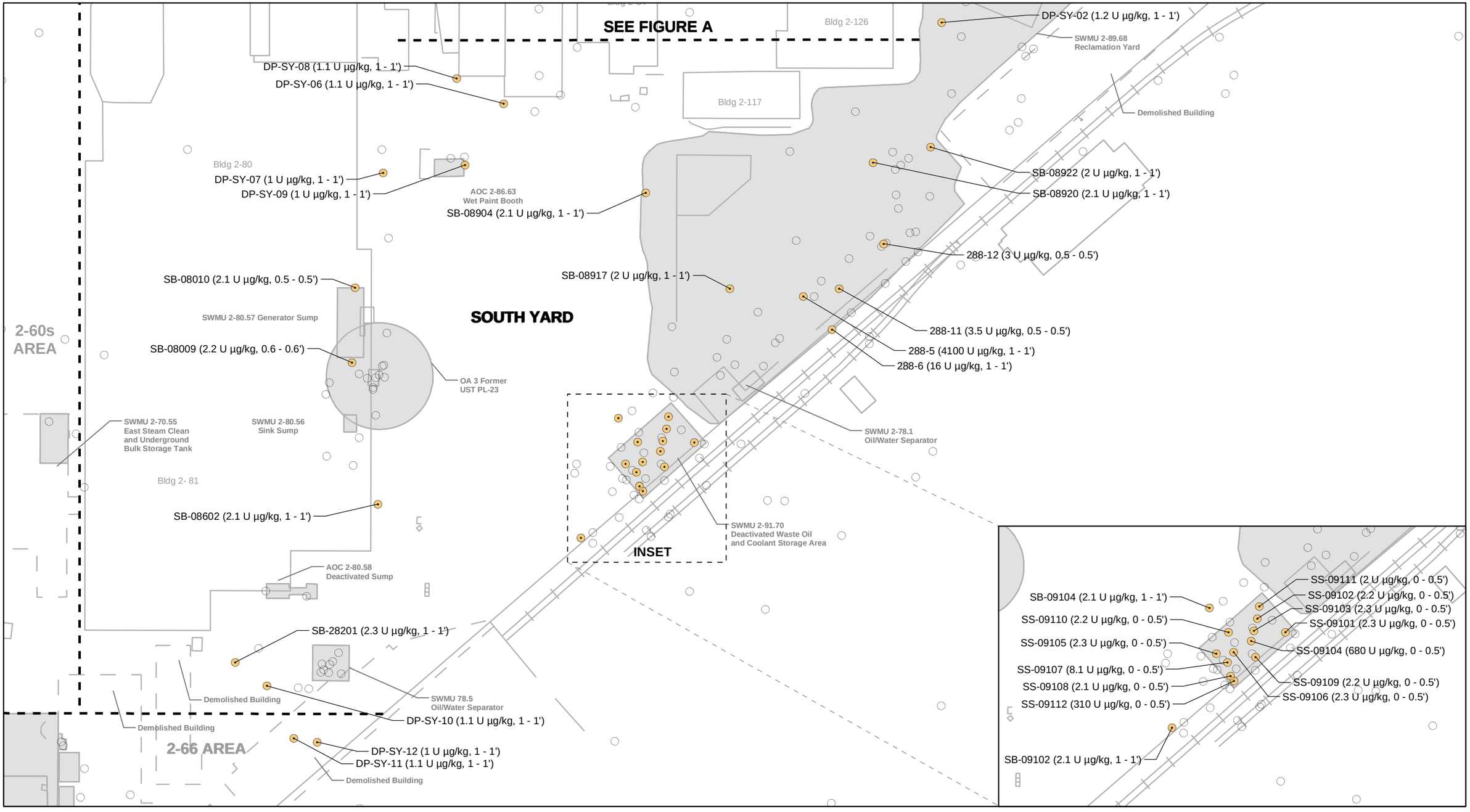
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
VINYL CHLORIDE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_VINYLCHLORIDESY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 4.59 µg/kg
Proposed Media Cleanup Level (PMCL) = 290 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

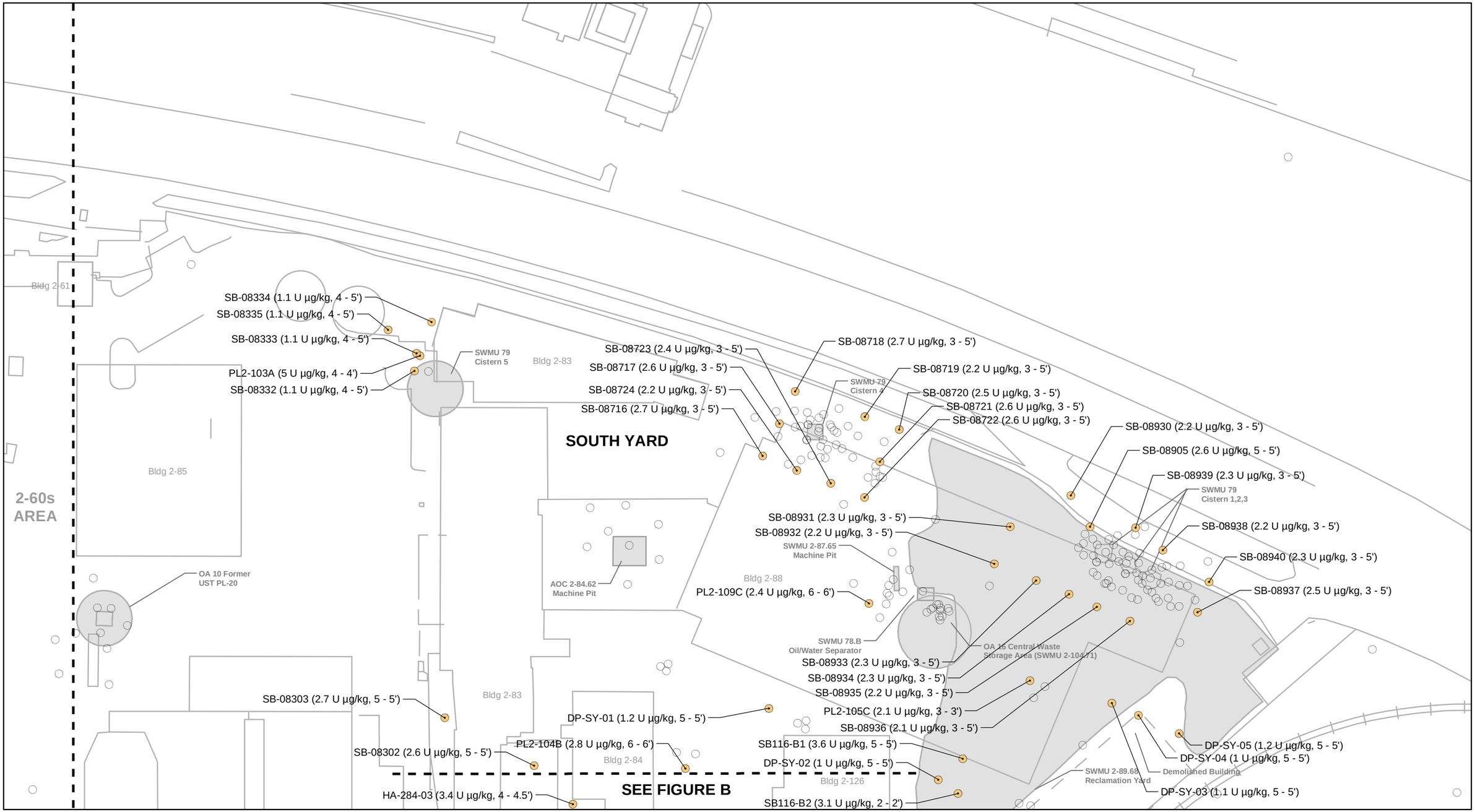
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
VINYL CHLORIDE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_VINYLCHLORIDESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 4.59 µg/kg
Proposed Media Cleanup Level (PMCL) = 290 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

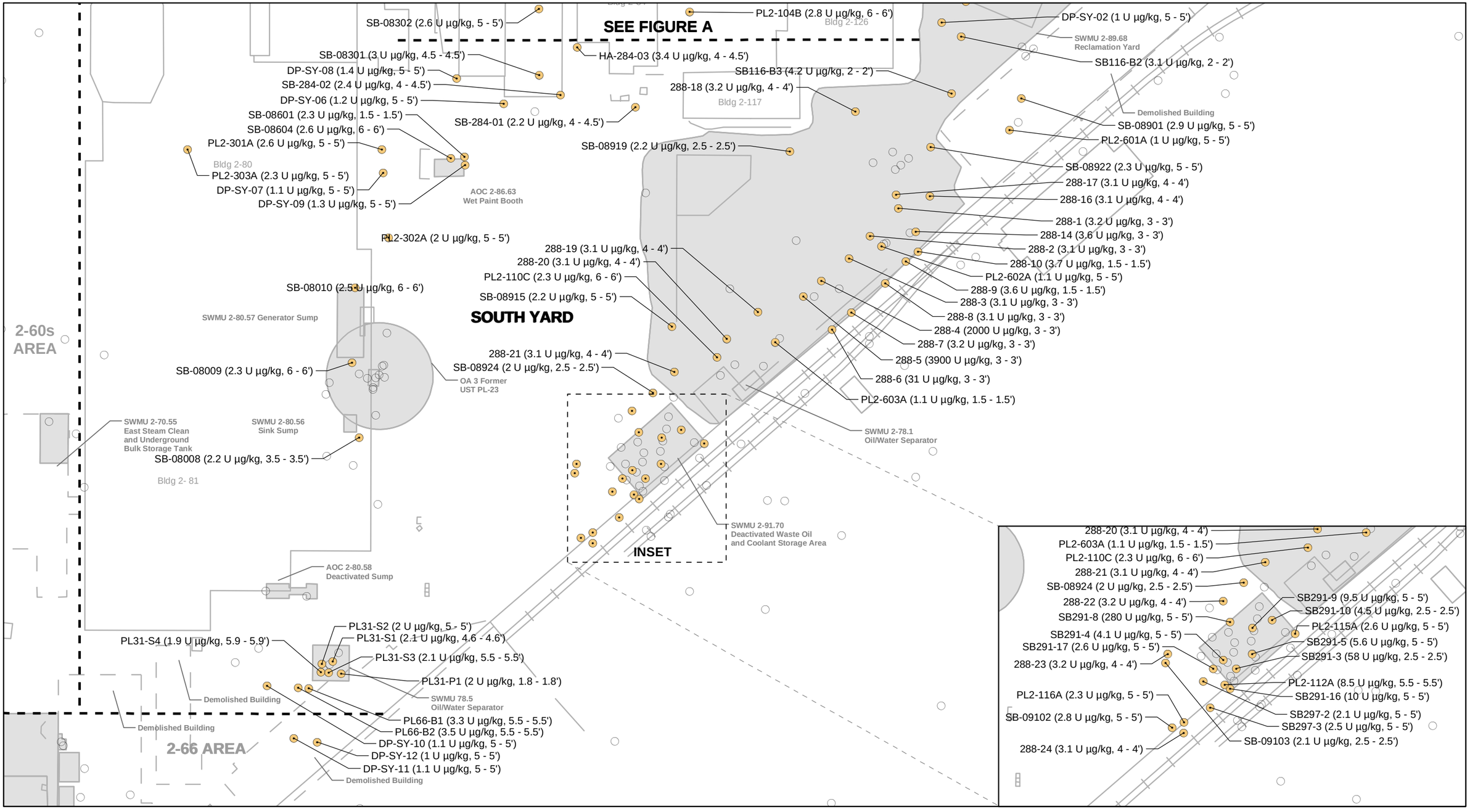
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
VINYL CHLORIDE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_VINYLCHLORIDESY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 4.59 µg/kg
Proposed Media Cleanup Level (PMCL) = 290 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

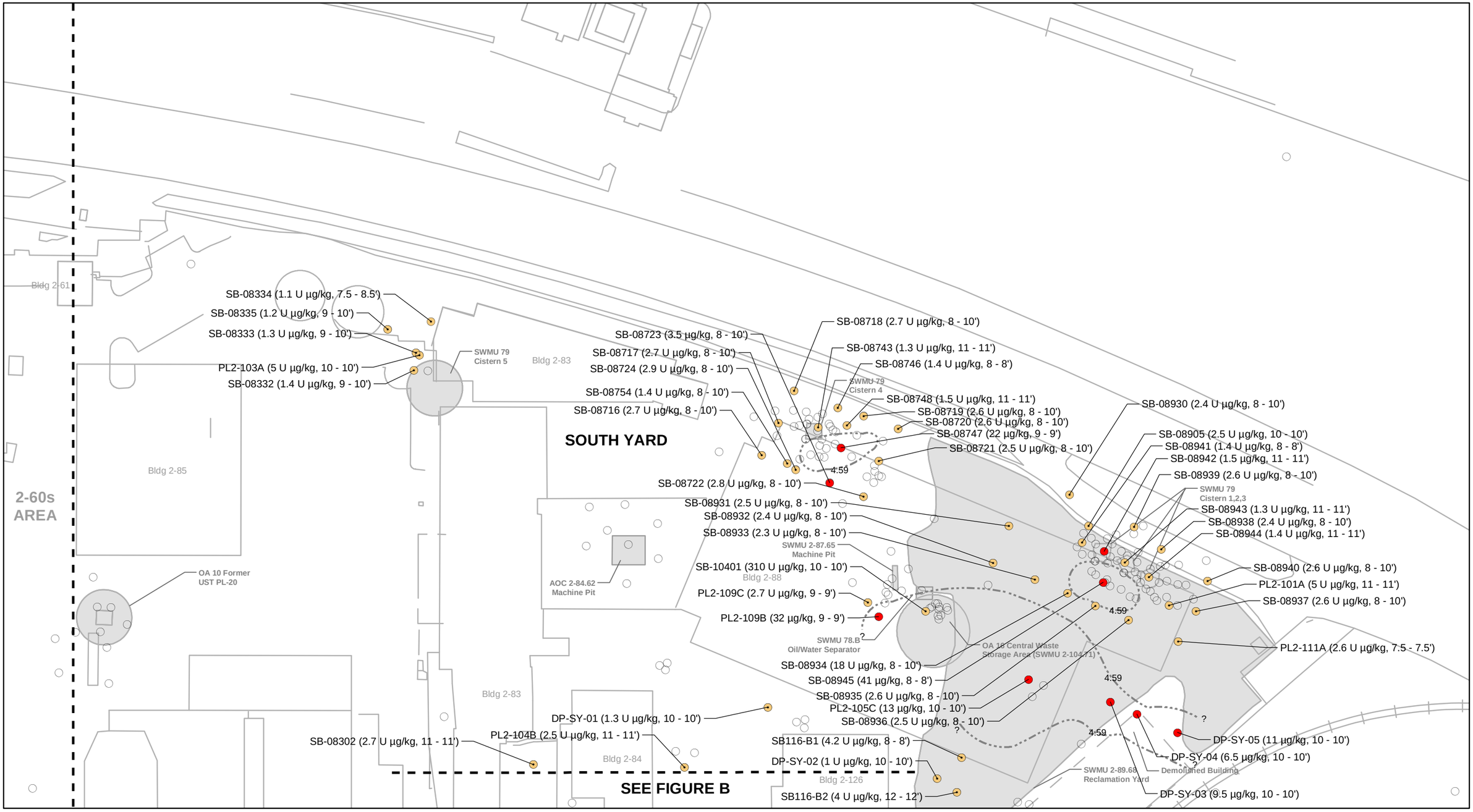
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
VINYL CHLORIDE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_VINYLCHLORIDESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 4.59 µg/kg
Proposed Media Cleanup Level (PMCL) = 290 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

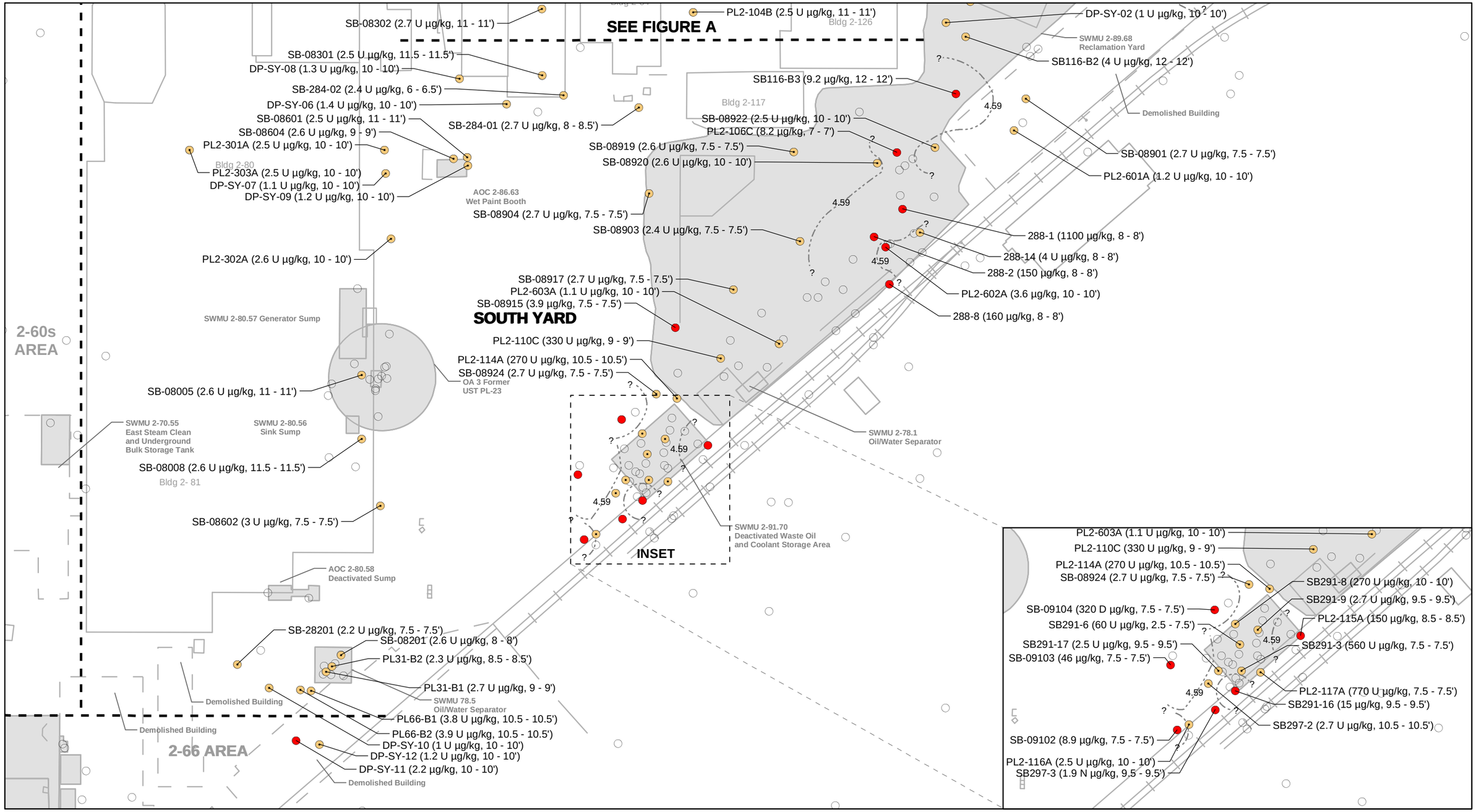
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)
VINYL CHLORIDE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_VINYLCHLORIDESY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; µg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (µg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 4.59 µg/kg
Proposed Media Cleanup Level (PMCL) = 290 µg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

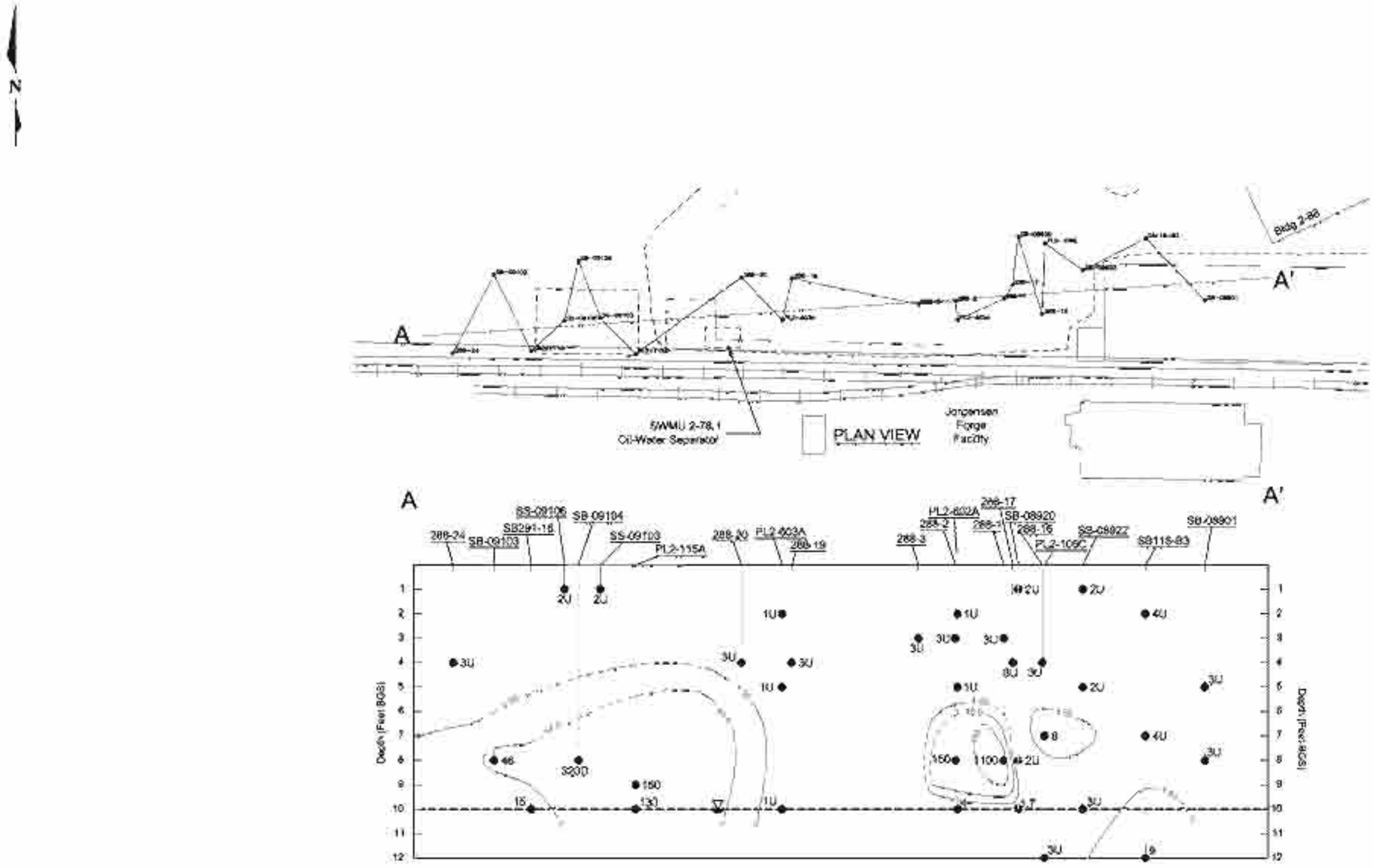
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
VINYL CHLORIDE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_VINYLCHLORIDESY3B.mxd

Golder Associates



NOTE:
SOIL SCREENING LEVEL FOR VINYL CHLORIDE = 4.58 µg/kg
SOIL ISOCONCENTRATION CONTOUR (µg/kg)

VINYL CHLORIDE CONCENTRATION (µg/kg)

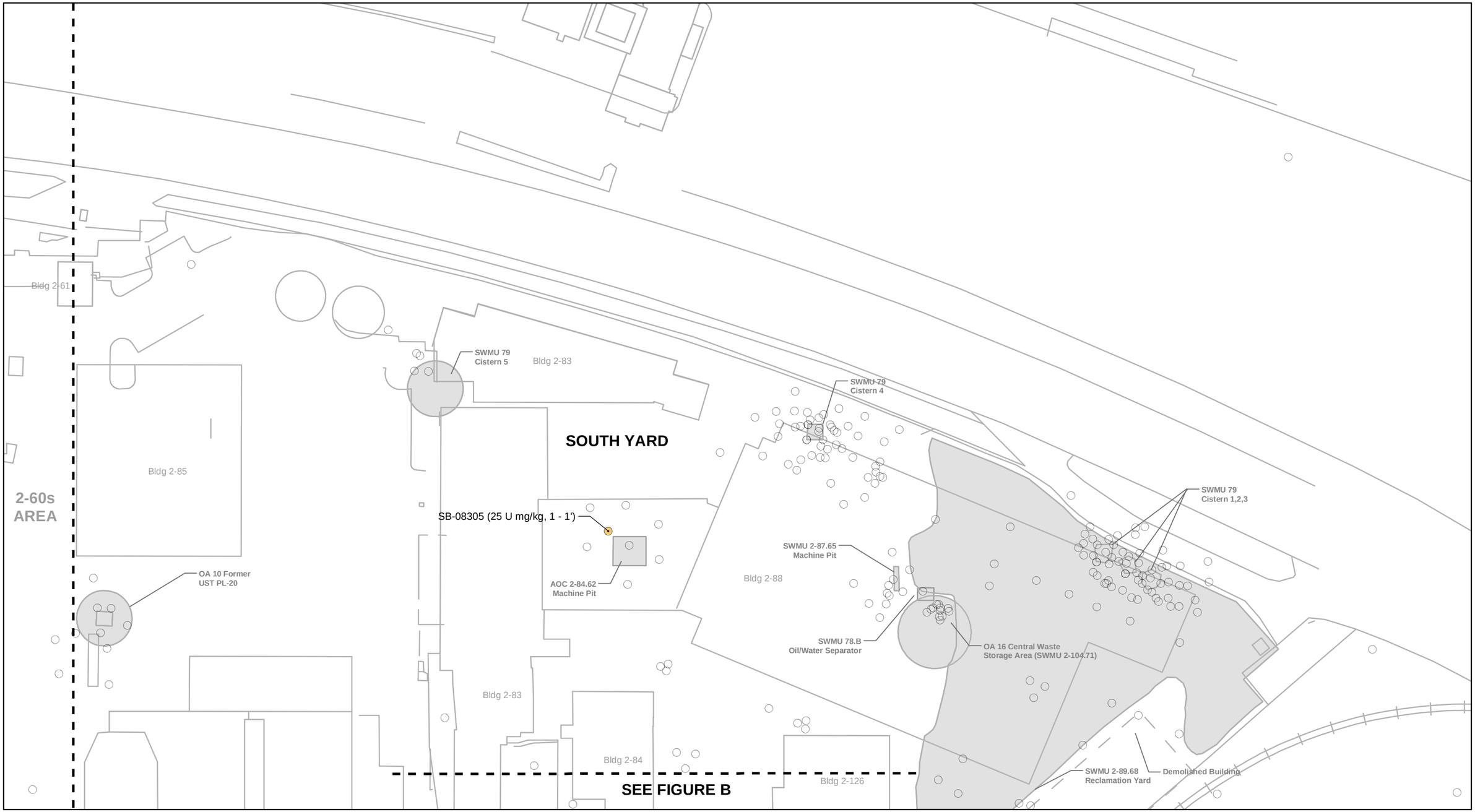
APPROXIMATE WATER TABLE - March, 2005

FIGURE 4

SOUTH YARD AREA
VINYL CHLORIDE IN SOIL CROSS-SECTION A-A'

BOEING PLANT 2

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

TPH - DIESEL RANGE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_DIESELSY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-117

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SB-08010 (25 U mg/kg, 0.5 - 0.5')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08009 (25 U mg/kg, 0.6 - 0.6')

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-09104 (25 U mg/kg, 1 - 1')

SB-09102 (25 U mg/kg, 1 - 1')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental
Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

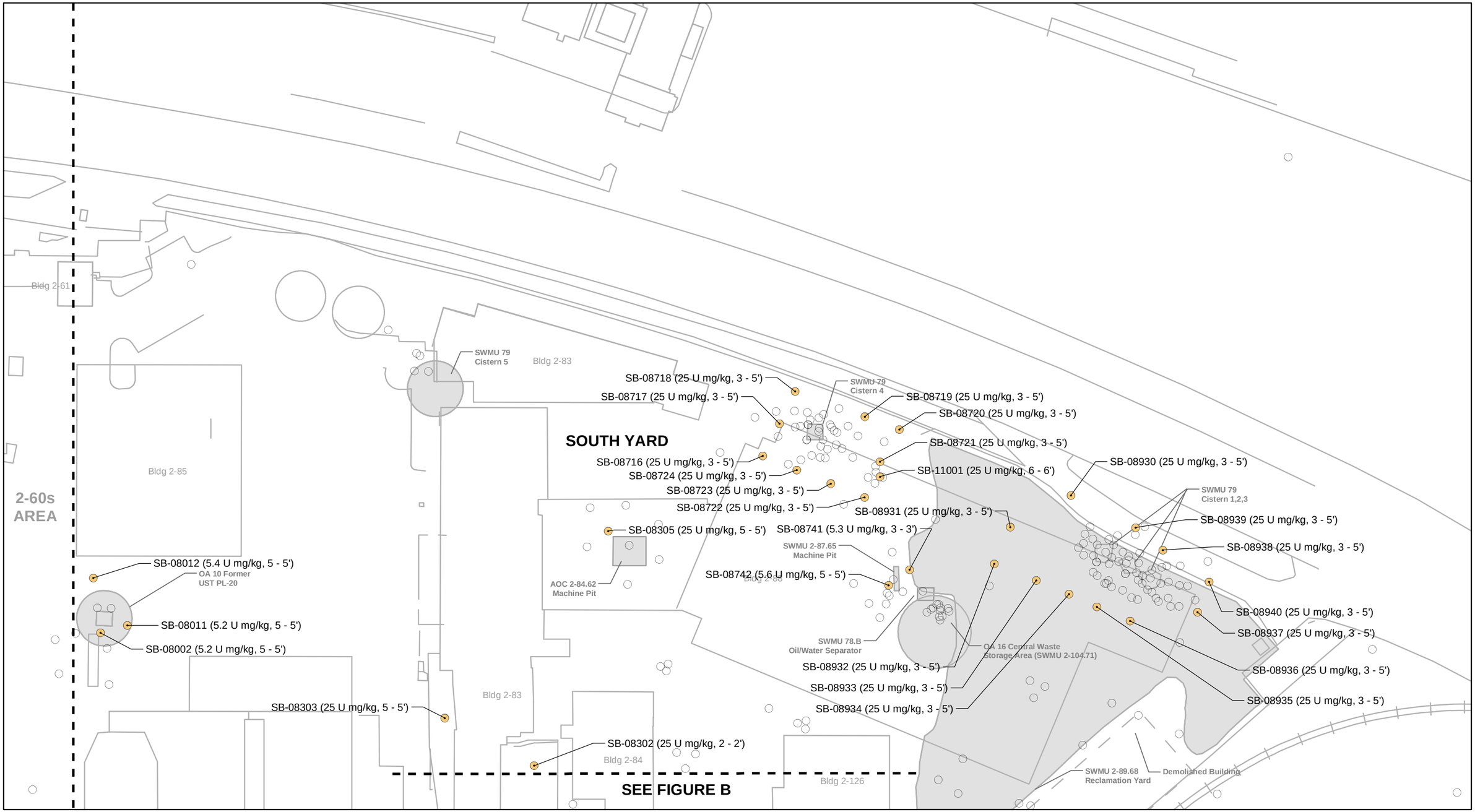
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TPH - DIESEL RANGE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_DIESELSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70

Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

TPH - DIESEL RANGE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_DIESELSY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (25 U mg/kg, 1.5 - 1.5')

Bldg 2-117

Demolished Building

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SB-08010 (25 U mg/kg, 6 - 6')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08009 (25 U mg/kg, 6 - 6')

PL2-603A (34 mg/kg, 0 - 1.5')

SB-08925 (25 U mg/kg, 1.5 - 1.5')

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-603A (34 mg/kg, 0 - 1.5')

SB-08925 (25 U mg/kg, 1.5 - 1.5')

B-09103 (25 U mg/kg, 2.5 - 2.5')

SB-09102 (25 U mg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

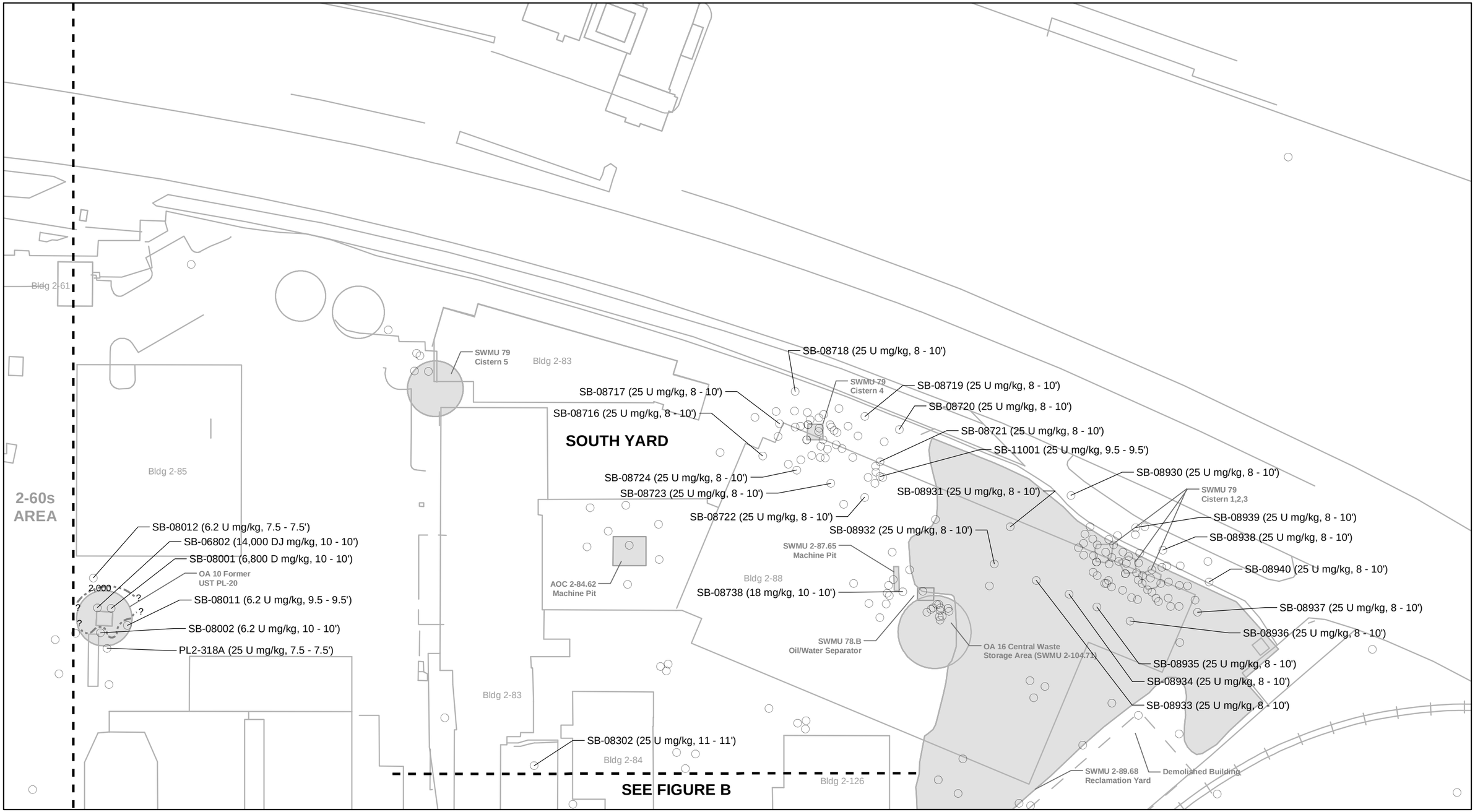
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TPH - DIESEL RANGE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_DIESELSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

TPH - DIESEL RANGE IN SOIL: DEPTH 6 - 12 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_DIESELSY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (25 U mg/kg, 11.5 - 11.5')

Bldg 2-117

Demolished Building

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-06901 (25 U mg/kg, 10 - 10')

OA 3 Former
UST PL-23

SB-08603 (25 U mg/kg, 10 - 10')

PL2-603A (16 mg/kg, 8.5 - 10')

SB-08925 (25 U mg/kg, 8 - 8')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (25 U mg/kg, 8 - 8')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-603A (16 mg/kg, 8.5 - 10')

SB-08925 (25 U mg/kg, 8 - 8')

SB-09104 (25 U mg/kg, 7.5 - 7.5')

SB-09103 (25 U mg/kg, 7.5 - 7.5')

SB-09102 (25 U mg/kg, 7.5 - 7.5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

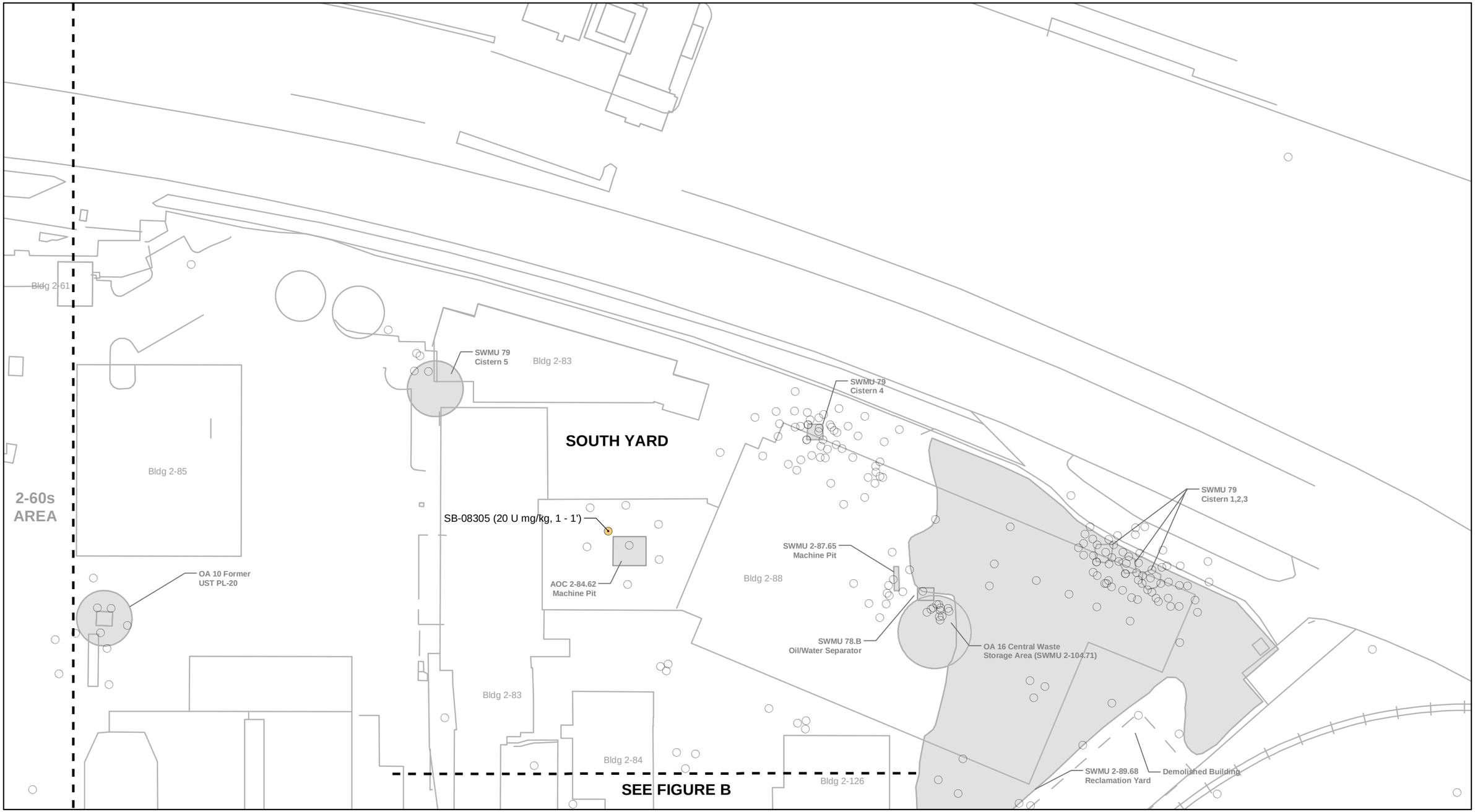
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TPH - DIESEL RANGE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_DIESELSY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 30 mg/kg
Proposed Media Cleanup Level (PMCL) = 100 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

TPH - GASOLINE RANGE IN SOIL: DEPTH 0 - 1 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_GASOLINESY1A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

Demolished Building

Bldg 2-117

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SB-08010 (20 U mg/kg, 0.5 - 0.5')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08009 (20 U mg/kg, 0.6 - 0.6')

OA 3 Former
UST PL-23

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-09104 (20 U mg/kg, 1 - 1')

SB-09102 (20 U mg/kg, 1 - 1')

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental
Partners, Golder Associates

Soil Screening Level = 30 mg/kg
Proposed Media Cleanup Level (PMCL) = 100 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

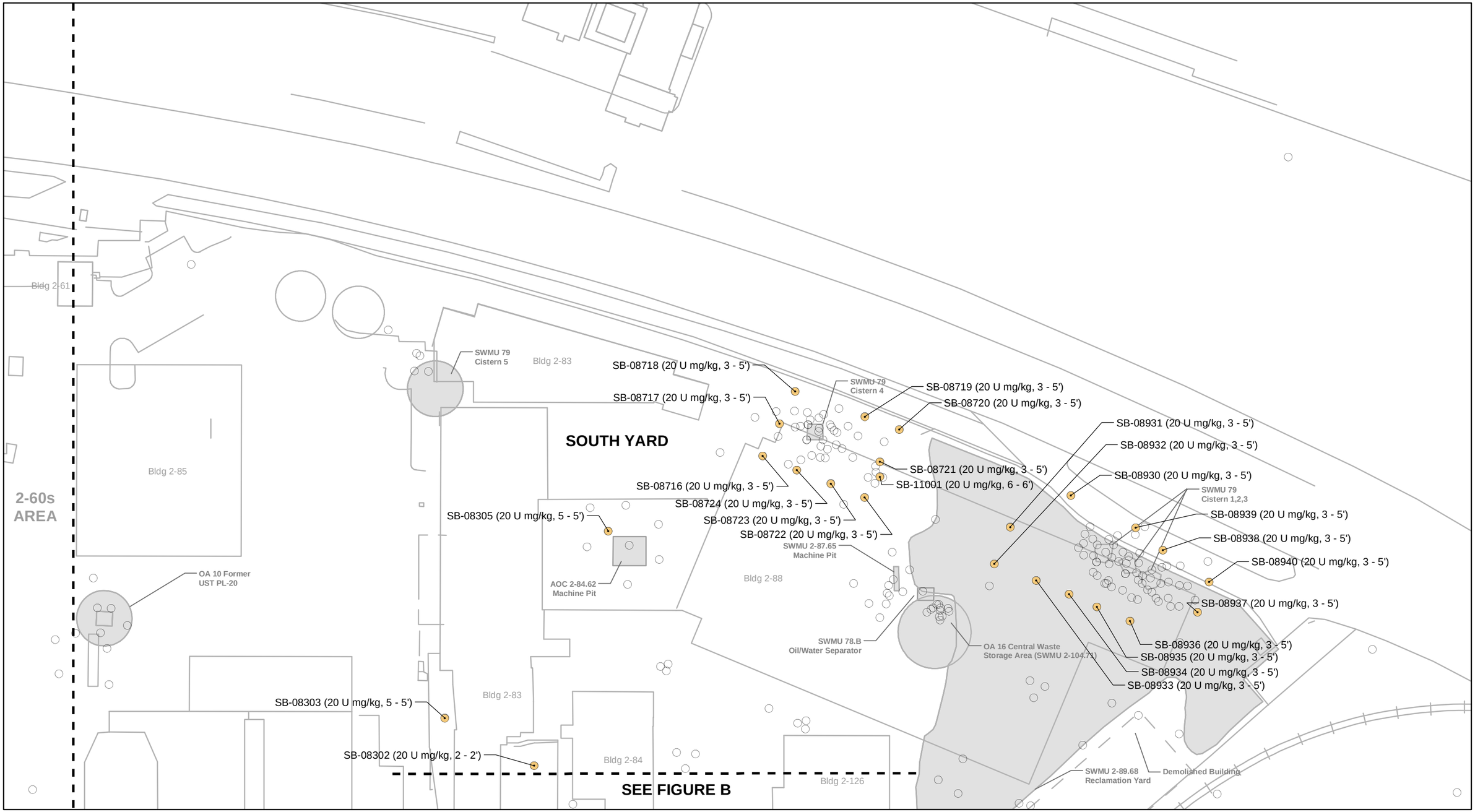
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TPH - GASOLINE RANGE IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_GASOLINESY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 30 mg/kg
Proposed Media Cleanup Level (PMCL) = 100 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

TPH - GASOLINE RANGE IN SOIL: DEPTH 1 - 6 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_GASOLINESY2A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (20 U mg/kg, 1.5 - 1.5')

Bldg 2-117

Demolished Building

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SB-08010 (20 U mg/kg, 6 - 6')

SB-08014 (5 U mg/kg, 5 - 5')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08009 (20 U mg/kg, 6 - 6')

SB-08007 (5 U mg/kg, 5 - 5')

SB-08013 (5 U mg/kg, 5 - 5')

OA 3 Former
UST PL-23

SB-08005 (2,100 mg/kg, 2 - 2')

30

SB-08006 (5 U mg/kg, 5 - 5')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

SB-08008 (5 U mg/kg, 3.5 - 3.5')

PL2-603A (6.7 U mg/kg, 0 - 1.5')

SB-08925 (20 U mg/kg, 1.5 - 1.5')

SWMU 2-78.1
Oil/Water Separator

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

Demolished Building

SWMU 78.5
Oil/Water Separator

Demolished Building

2-66 AREA

Demolished Building

PL2-603A (6.7 U mg/kg, 0 - 1.5')

SB-08925 (20 U mg/kg, 1.5 - 1.5')

B-09103 (20 U mg/kg, 2.5 - 2.5')

SB-09102 (20 U mg/kg, 5 - 5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 30 mg/kg
Proposed Media Cleanup Level (PMCL) = 100 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

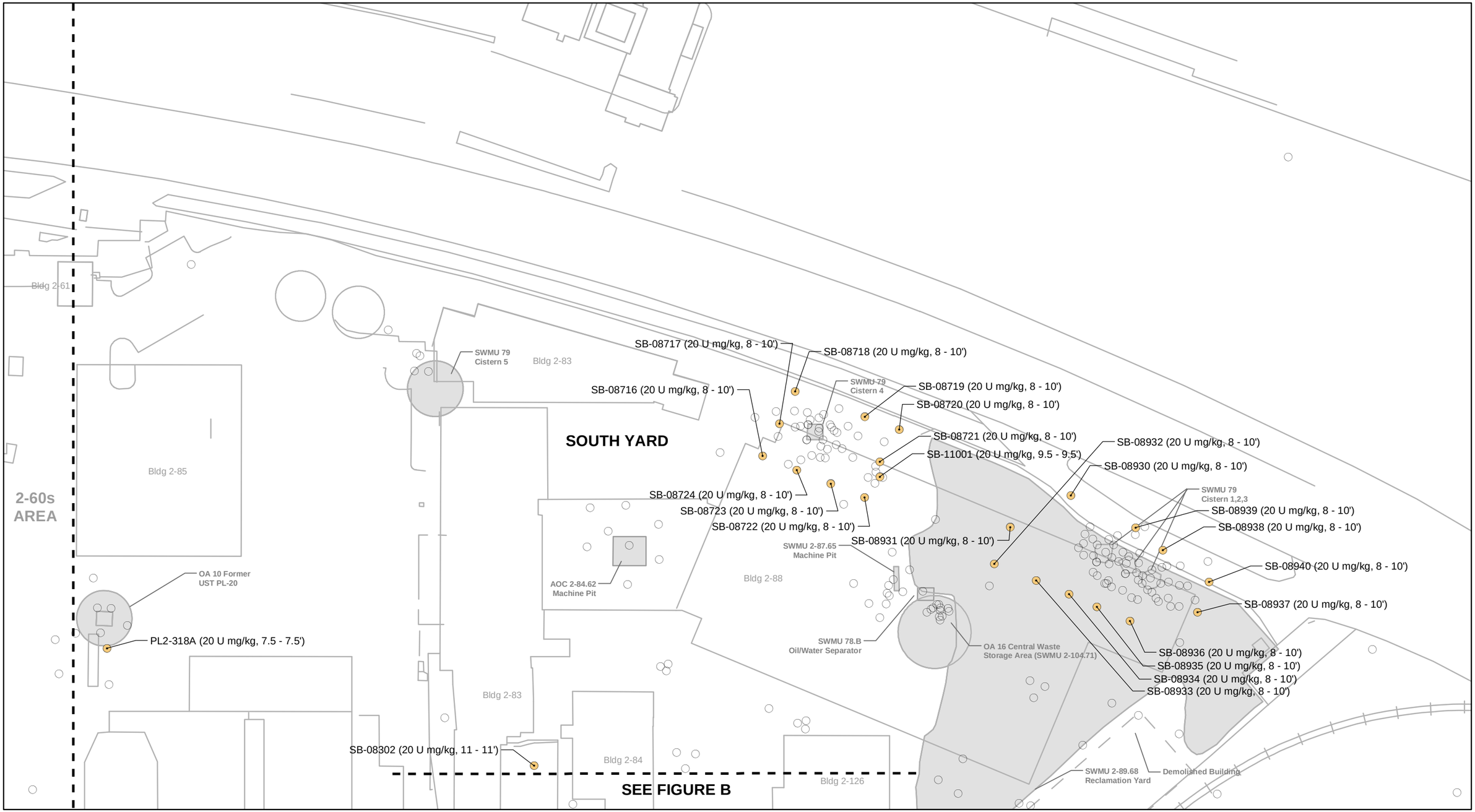
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TPH - GASOLINE RANGE IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_GASOLINESY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 30 mg/kg
Proposed Media Cleanup Level (PMCL) = 100 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST)

TPH - GASOLINE RANGE IN SOIL: DEPTH 6 - 12 FT

BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_GASOLINESY3A.mxd

Golder Associates

SEE FIGURE A

Bldg 2-126

SWMU 2-89.68
Reclamation Yard

SB-08301 (20 U mg/kg, 11.5 - 11.5')

Bldg 2-117

Demolished Building

Bldg 2-80

AOC 2-86.63
Wet Paint Booth

SB-08603 (20 U mg/kg, 7.5 - 7.5')

EX-5 (19 mg/kg, 10.5 - 10.5')

SB-08014 (5 U mg/kg, 11 - 11')

SWMU 2-80.57 Generator Sump

SOUTH YARD

2-60s
AREA

SB-08007 (5 U mg/kg, 7.5 - 7.5')

SB-08013 (5 U mg/kg, 12 - 12')

SB-06901 (20 U mg/kg, 10 - 10')

OA 3 Former
UST PL-23

PL2-603A (6.7 U mg/kg, 8.5 - 10')

SB-08925 (20 U mg/kg, 8 - 8')

SB-08005 (5 U mg/kg, 11 - 11')

EX-3 (14,000 mg/kg, 8 - 8')

SB-08006 (5 U mg/kg, 7.5 - 7.5')

SWMU 2-70.55
East Steam Clean
and Underground
Bulk Storage Tank

SWMU 2-80.56
Sink Sump

EX-1 (1,200 mg/kg, 8 - 8')

SWMU 2-78.1
Oil/Water Separator

SB-08008 (5 U mg/kg, 6.5 - 6.5')

Bldg 2- 81

SWMU 2-91.70
Deactivated Waste Oil
and Coolant Storage Area

INSET

AOC 2-80.58
Deactivated Sump

SB-08201 (20 U mg/kg, 8 - 8')

SWMU 78.5
Oil/Water Separator

Demolished Building

Demolished Building

2-66 AREA

Demolished Building

PL2-603A (6.7 U mg/kg, 8.5 - 10')

SB-08925 (20 U mg/kg, 8 - 8')

SB-09104 (20 U mg/kg, 10 - 10')

B-09103 (20 U mg/kg, 7.5 - 7.5')

SB-09102 (20 U mg/kg, 7.5 - 7.5')

LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 30 mg/kg
Proposed Media Cleanup Level (PMCL) = 100 mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

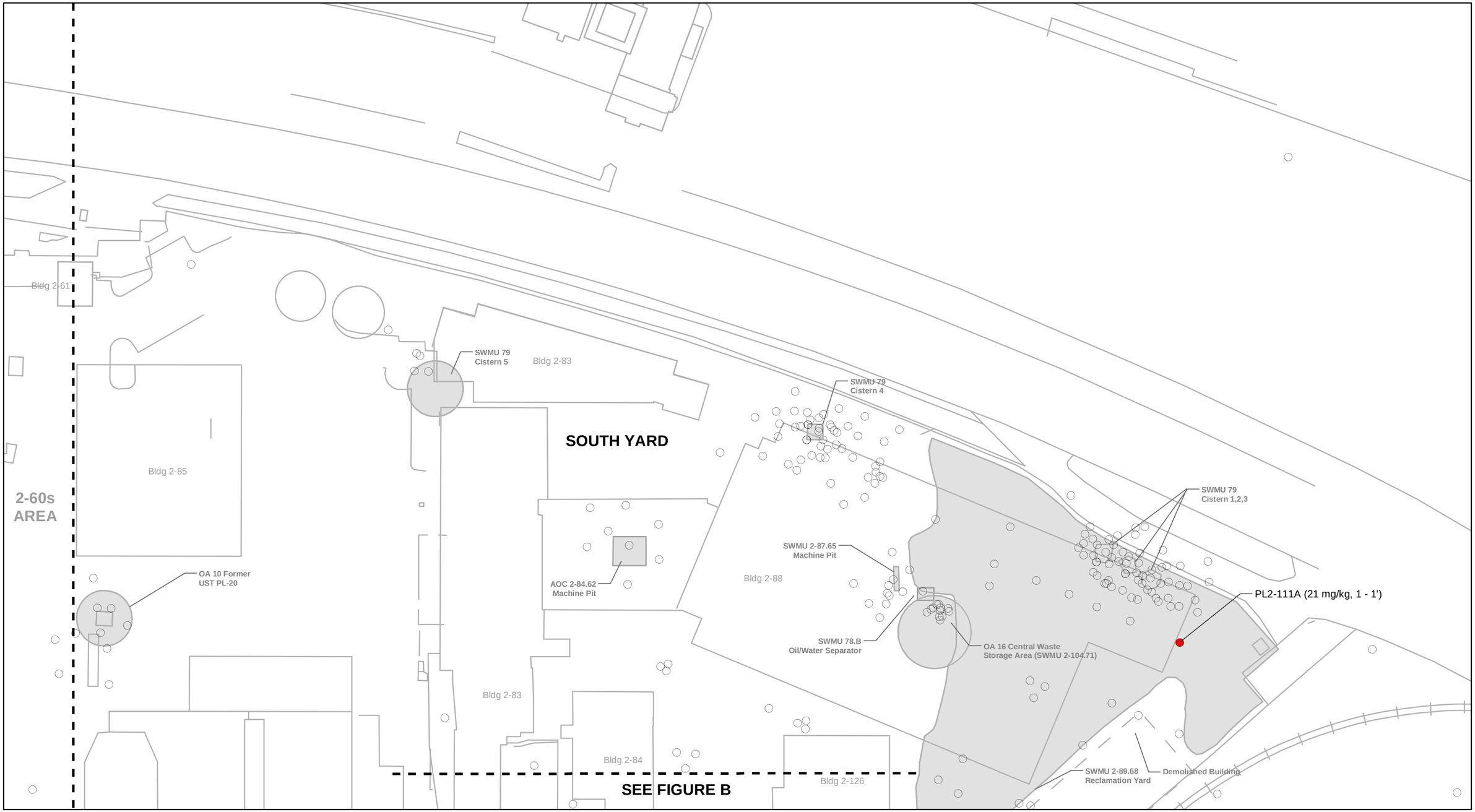
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST)
TPH - GASOLINE RANGE IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_GASOLINESY3B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

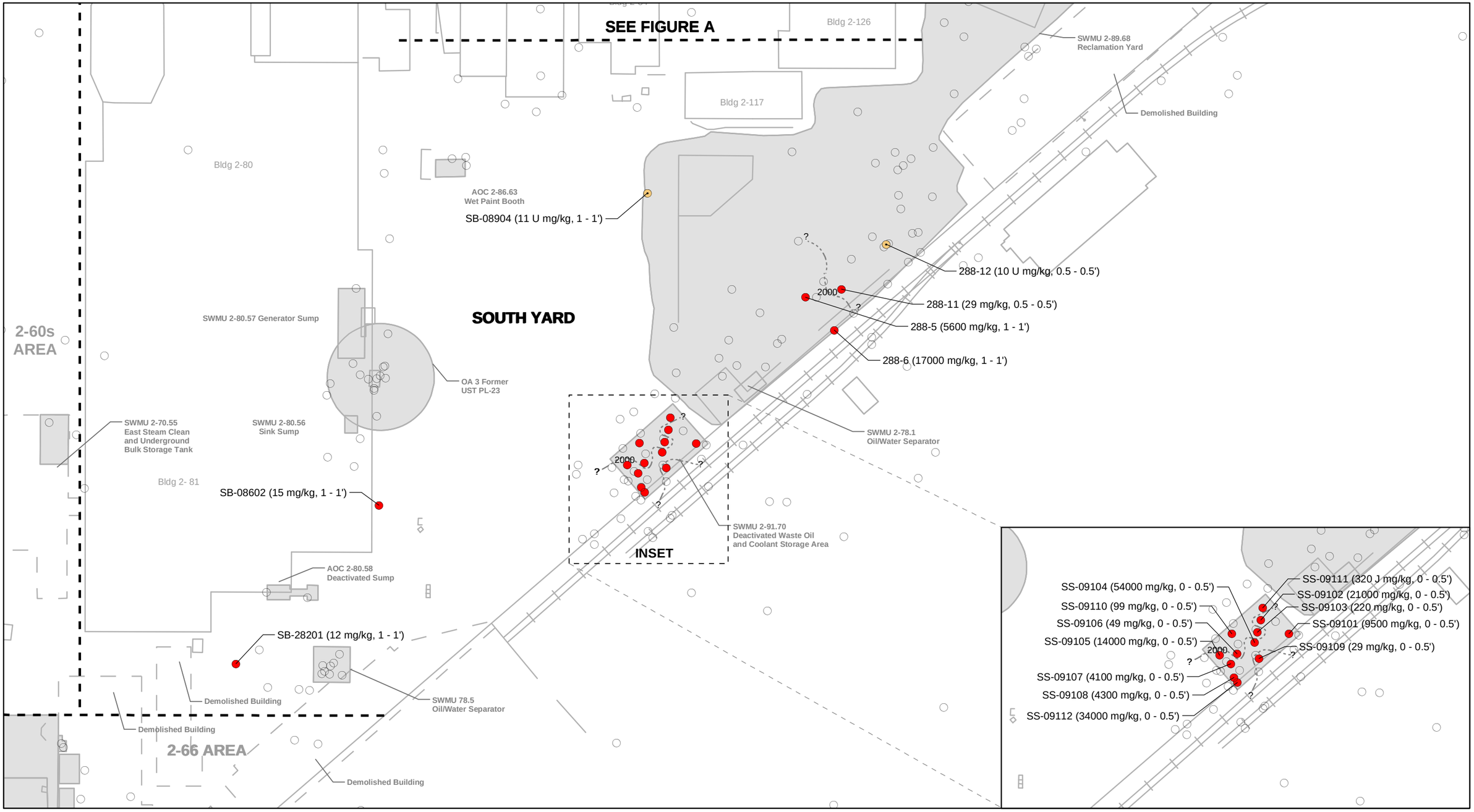
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST) TOTAL PETROLEUM HYDROCARBONS IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1A

0131646003200_TOTALPETROLEUMSY1A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

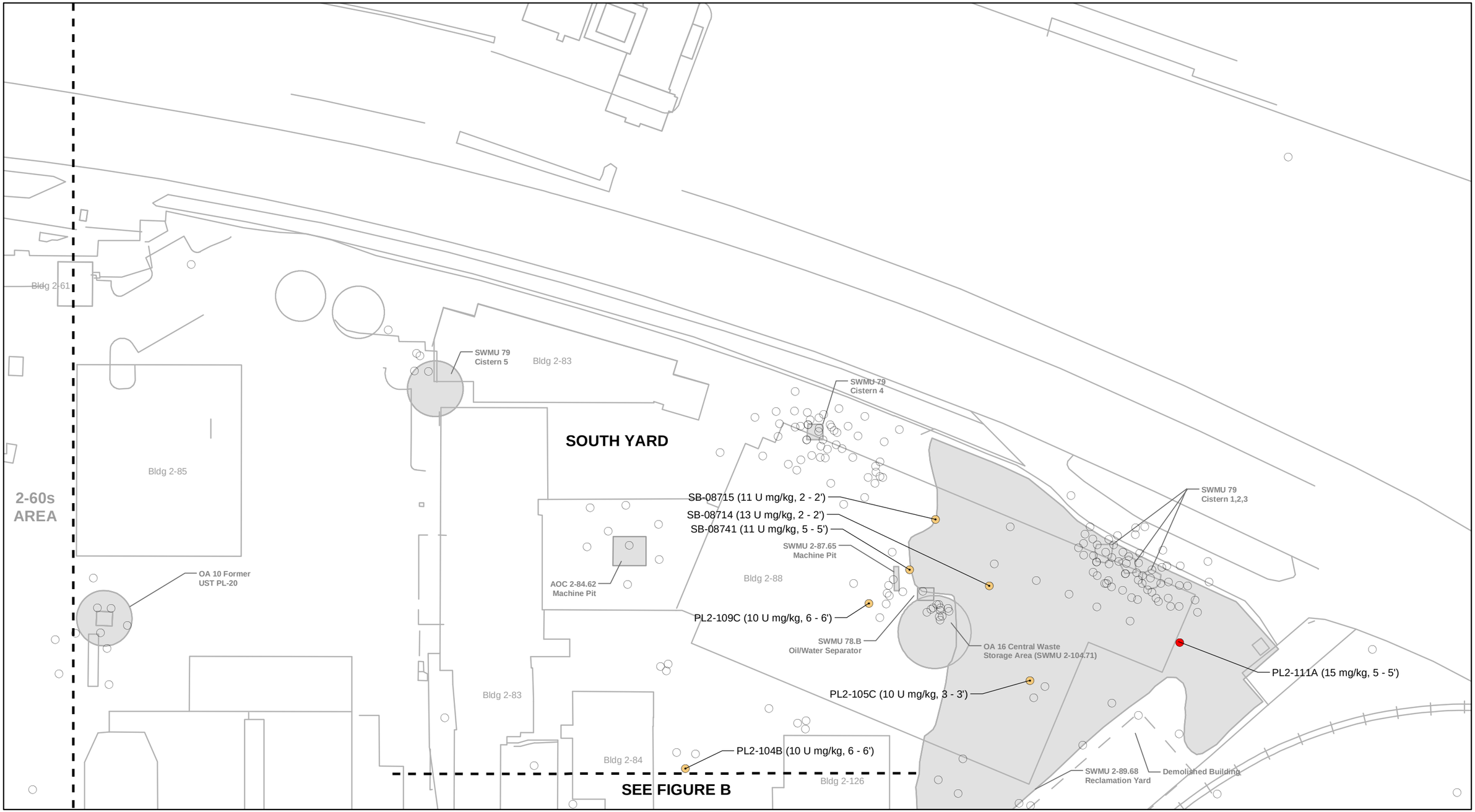
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST) TOTAL PETROLEUM HYDROCARBONS IN SOIL: DEPTH 0 - 1 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 1B

0131646003200_TOTALPETROLEUMSY1B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

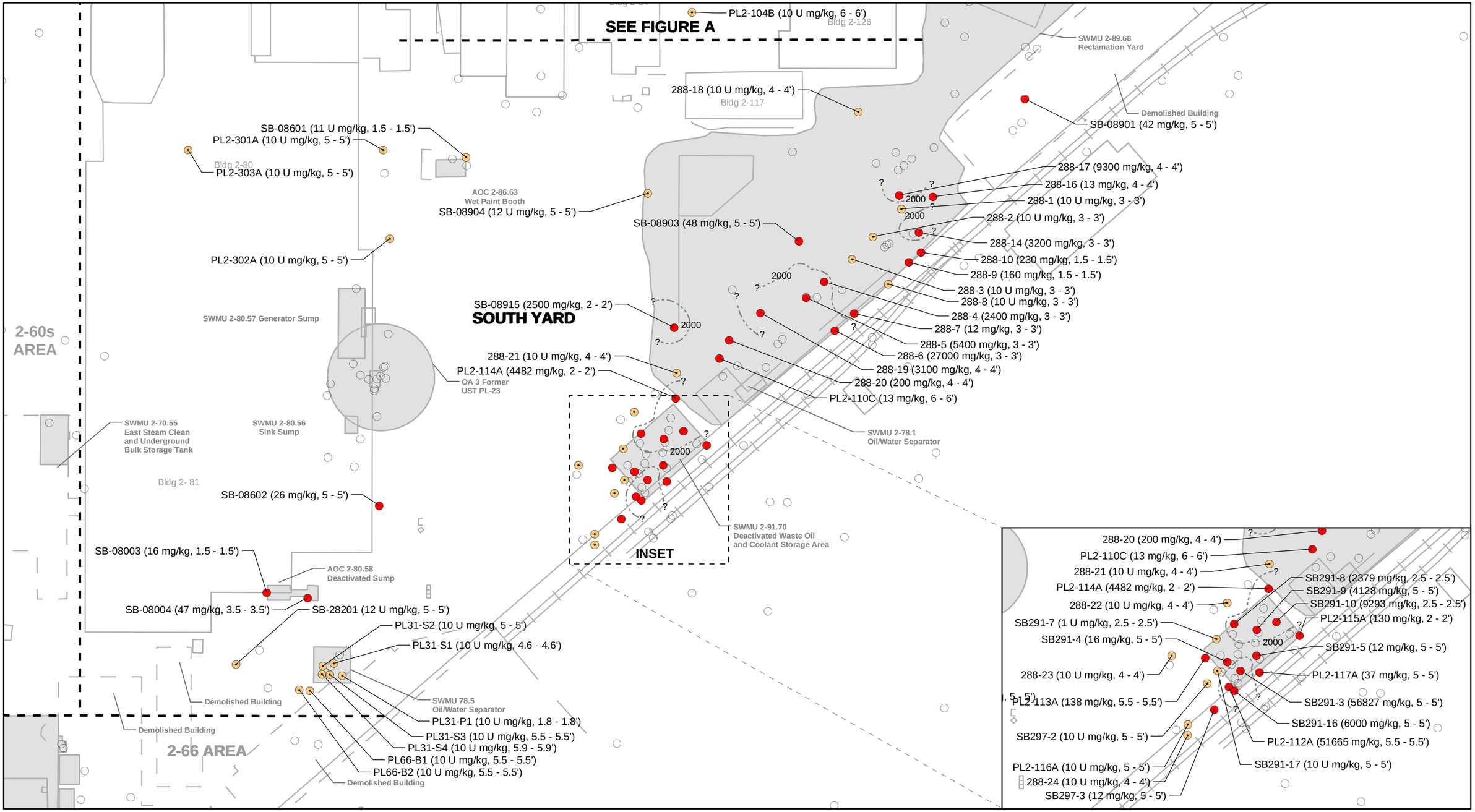
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST) TOTAL PETROLEUM HYDROCARBONS IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2A

0131646003200_TOTALPETROLEUMSY2A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

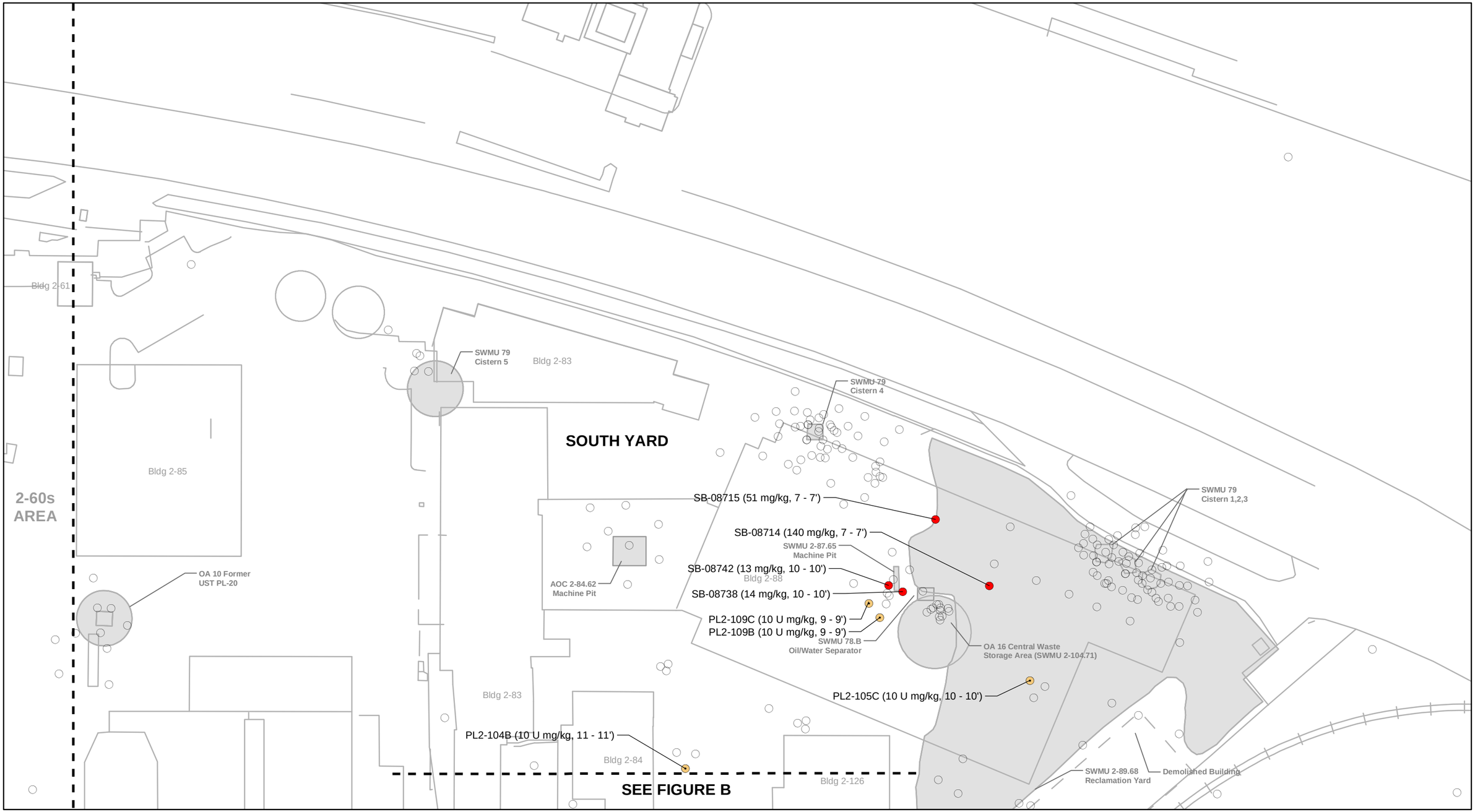
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST) TOTAL PETROLEUM HYDROCARBONS IN SOIL: DEPTH 1 - 6 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 2B

0131646003200_TOTALPETROLEUMSY2B.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70

Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

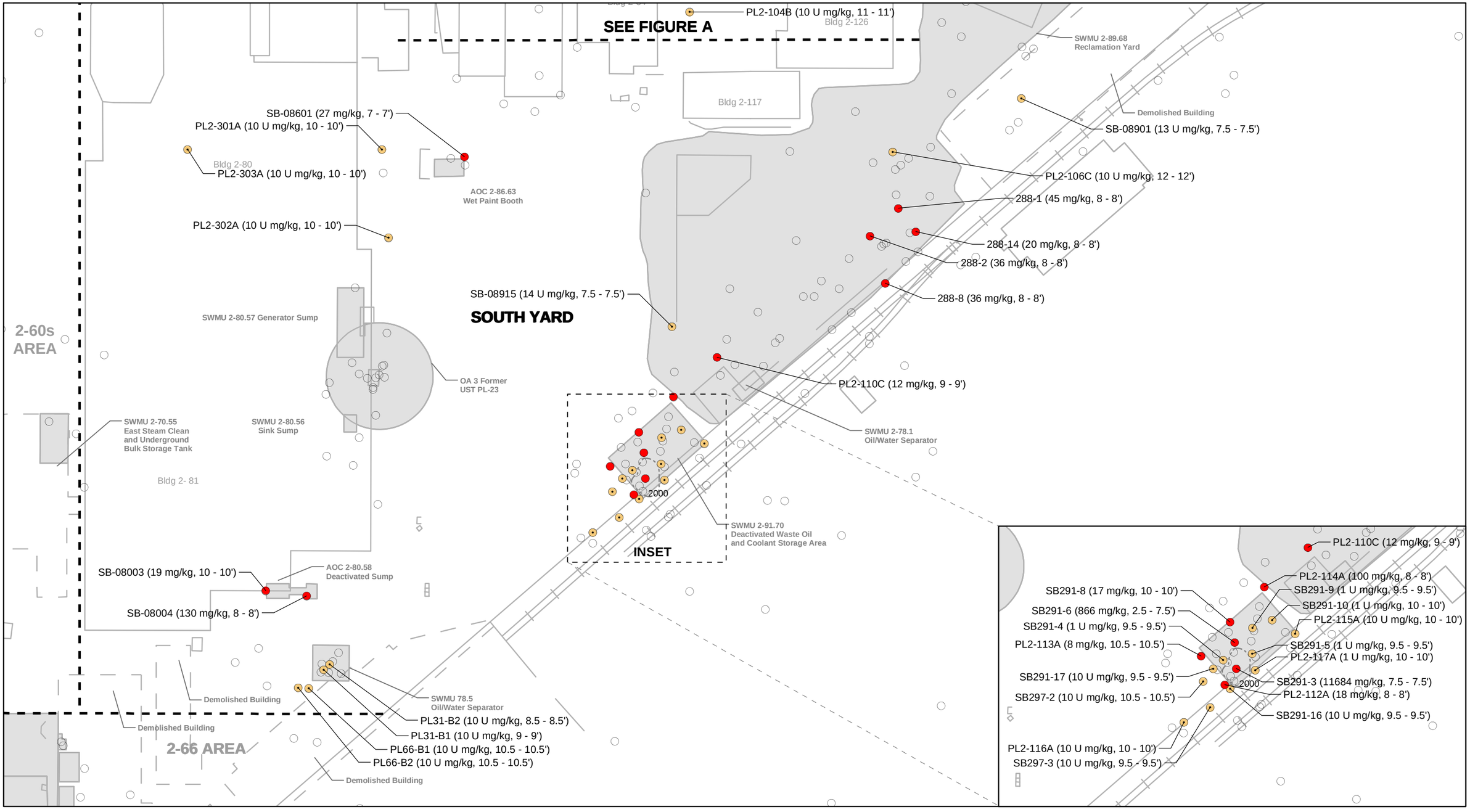
Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (EAST) TOTAL PETROLEUM HYDROCARBONS IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3A

0131646003200_TOTALPETROLEUMSY3A.mxd

Golder Associates



LEGEND

- Sample location where constituent was detected. (Concentration; mg/kg, Depth; feet bgs).
- Sample location where constituent was not detected.
- Sample location where constituent was not analyzed.
- Soil isoconcentration line (mg/kg).
- Plant 2 Sub-Area Boundary.

0 70
Scale 1" = 70 Feet

Map Projection:
Washington State Plane
North Zone, NAD 83, Feet

Source: Weston, Environmental Partners, Golder Associates

Soil Screening Level = 2,000 mg/kg
Proposed Media Cleanup Level (PMCL) = 200mg/kg
(Weston, 1999)

Data presented on this figure is post removal actions at SWMU 79 and OA 3.

Explanation for data qualifiers (U, J, Y...) are provided in Attachment B.

SOUTH YARD AREA (WEST) TOTAL PETROLEUM HYDROCARBONS IN SOIL: DEPTH 6 - 12 FT
BOEING PLANT 2

Drawn: BBA	Apprv'd: TJN	Date: 06/30/06	Figure: 3B

0131646003200_TOTALPETROLEUMSY3B.mxd

Golder Associates

South Yard Area COC Results
Arsenic Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Arsenic (mg/kg) - 2004 Soil Screening Level = 7.3 mg/kg; PMCL = 7.3 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	5	U
DP-SY-01	4 - 5	3/8/2005	7	U
DP-SY-01	9 - 10	3/8/2005	6	U
DP-SY-02	0 - 1	3/7/2005	5	U
DP-SY-02	4 - 5	3/7/2005	6	U
DP-SY-02	9 - 10	3/7/2005	7	U
DP-SY-03	0 - 1	3/7/2005	5	U
DP-SY-03	4 - 5	3/7/2005	6	U
DP-SY-03	9 - 10	3/7/2005	5	U
DP-SY-04	0 - 1	3/7/2005	5	U
DP-SY-04	4 - 5	3/7/2005	5	U
DP-SY-04	9 - 10	3/7/2005	6	U
DP-SY-05	0 - 1	3/7/2005	5	U
DP-SY-05	4 - 5	3/7/2005	7	U
DP-SY-05	9 - 10	3/7/2005	6	U
DP-SY-06	0 - 1	3/7/2005	7	
DP-SY-06	4 - 5	3/7/2005	6	U
DP-SY-06	9 - 10	3/7/2005	6	U
DP-SY-07	0 - 1	3/7/2005	5	U
DP-SY-07	4 - 5	3/7/2005	5	U
DP-SY-07	9 - 10	3/7/2005	6	U
DP-SY-08	0 - 1	3/7/2005	6	U
DP-SY-08	4 - 5	3/7/2005	8	
DP-SY-08	9 - 10	3/7/2005	7	U
DP-SY-09	0 - 1	3/8/2005	6	U
DP-SY-09	4 - 5	3/8/2005	6	U
DP-SY-09	9 - 10	3/8/2005	6	U
DP-SY-10	0 - 1	3/8/2005	5	U
DP-SY-10	4 - 5	3/8/2005	5	U
DP-SY-10	9 - 10	3/8/2005	6	U
DP-SY-11	0 - 1	3/8/2005	5	U
DP-SY-11	4 - 5	3/8/2005	5	U
DP-SY-11	9 - 10	3/8/2005	6	
DP-SY-12	0 - 1	3/8/2005	5	U
DP-SY-12	4 - 5	3/8/2005	5	U
DP-SY-12	9 - 10	3/8/2005	5	U
PL2-601A	0 - 1.5	3/1/2005	5	U
PL2-601A	3.5 - 5	3/1/2005	5	U
PL2-601A	8.5 - 10	3/1/2005	6	U
PL2-602A	0 - 1.5	3/1/2005	5	U
PL2-602A	3.5 - 5	3/1/2005	5	U
PL2-602A	8.5 - 10	3/1/2005	6	U
PL2-603A	0 - 1.5	2/28/2005	7	
PL2-603A	3.5 - 5	2/28/2005	5	U
PL2-603A	8.5 - 10	2/28/2005	5	U
SB-08334	4 - 5	4/23/2002	5	U
SB-08334	7.5 - 8.5	4/23/2002	5	U
SB-08335	4 - 5	4/23/2002	5	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Arsenic (mg/kg) - 2004 Soil Screening Level = 7.3 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	6	U
SB-08332	4 - 5	4/15/2002	5	U
SB-08332	4 - 5	4/15/2002	5	U
SB-08332	9 - 10	4/15/2002	7	U
SB-08333	4 - 5	4/15/2002	5	U
SB-08333	9 - 10	4/15/2002	7	U
SB-08716	3 - 5	11/25/1998	6	U
SB-08716	8 - 10	11/25/1998	7	U
SB-08717	3 - 5	11/25/1998	6	U
SB-08717	8 - 10	11/25/1998	7	U
SB-08718	3 - 5	11/25/1998	7	U
SB-08718	8 - 10	11/25/1998	6	U
SB-08719	3 - 5	11/25/1998	6	U
SB-08719	8 - 10	11/25/1998	6	U
SB-08720	3 - 5	11/25/1998	6	U
SB-08720	8 - 10	11/25/1998	7	U
SB-08721	3 - 5	11/25/1998	6	U
SB-08721	8 - 10	11/25/1998	7	U
SB-08722	3 - 5	11/25/1998	6	U
SB-08722	8 - 10	11/25/1998	7	U
SB-08723	3 - 5	11/25/1998	6	U
SB-08723	8 - 10	11/25/1998	7	U
SB-08724	3 - 5	11/25/1998	5	U
SB-08724	8 - 10	11/25/1998	7	U
SB-08930	3 - 5	11/24/1998	1.8	
SB-08930	8 - 10	11/24/1998	1.7	
SB-08931	3 - 5	11/24/1998	2.1	
SB-08931	8 - 10	11/24/1998	1.3	
SB-08932	3 - 5	11/24/1998	4.1	
SB-08932	8 - 10	11/24/1998	1.4	
SB-08933	3 - 5	11/24/1998	1.3	
SB-08933	8 - 10	11/24/1998	2.9	
SB-08934	3 - 5	11/24/1998	1.5	
SB-08934	8 - 10	11/24/1998	3	
SB-08935	3 - 5	11/24/1998	2.8	
SB-08935	8 - 10	11/24/1998	3.2	
SB-08936	3 - 5	11/24/1998	1.7	
SB-08936	8 - 10	11/24/1998	2.7	
SB-08937	3 - 5	11/24/1998	1.7	
SB-08937	8 - 10	11/24/1998	4.6	
SB-08938	3 - 5	11/24/1998	2.2	
SB-08938	8 - 10	11/24/1998	2.6	
SB-08939	3 - 5	11/24/1998	1.4	
SB-08939	8 - 10	11/24/1998	3.8	
SB-08940	3 - 5	11/24/1998	1.7	
SB-08940	8 - 10	11/24/1998	1.6	
SB-08022	10 - 11	3/19/1998	7	U
SB-08020	10 - 11	3/18/1998	9	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Arsenic (mg/kg) - 2004 Soil Screening Level = 7.3 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08021	9 - 10	3/18/1998	6	U
SB-08927	2 - 2	3/6/1995	5	U
SB-08927	6.5 - 6.5	3/6/1995	6	U
SB-08927	9.5 - 9.5	3/6/1995	7	U
SB-08929	2 - 2	3/6/1995	5	U
SB-08929	6.5 - 6.5	3/6/1995	6	U
SB-08929	9.5 - 9.5	3/6/1995	6	U
SB-08928	2.5 - 2.5	3/3/1995	5	U
SB-08928	4.5 - 4.5	3/3/1995	6	U
SB-08928	8.5 - 8.5	3/3/1995	6	U
SB-08926	2.5 - 2.5	3/2/1995	6	U
SB-08926	5.5 - 5.5	3/2/1995	6	U
SB-08926	8.5 - 8.5	3/2/1995	6	U
SB-08305	1 - 1	2/22/1995	5	U
SB-08305	5 - 5	2/22/1995	6	U
SB-08009	0.6 - 0.6	2/16/1995	5	U
SB-08009	6 - 6	2/16/1995	6	U
SB-08010	0.5 - 0.5	2/16/1995	5	U
SB-08010	6 - 6	2/16/1995	6	U
SB-08008	3.5 - 3.5	2/15/1995	5	U
SB-08008	6.5 - 6.5	2/15/1995	5	U
SB-08008	11.5 - 11.5	2/15/1995	6	U
SB-08604	1.5 - 1.5	9/19/1994	6	U
SB-08604	6 - 6	9/19/1994	7	U
SB-08604	9 - 9	9/19/1994	7	
SB-10403	10.5 - 10.5	9/7/1994	6	U
SB-10404	1.5 - 1.5	9/7/1994	5	U
SB-10404	6.5 - 6.5	9/7/1994	7	U
SB-10404	10.5 - 10.5	9/7/1994	7	U
SB-10405	10.5 - 10.5	9/7/1994	7	U
SB-08301	1.5 - 1.5	9/3/1994	6	U
SB-08301	4.5 - 4.5	9/3/1994	12	
SB-08301	11.5 - 11.5	9/3/1994	6	U
SB-08302	2 - 2	9/3/1994	6	
SB-08302	5 - 5	9/3/1994	7	
SB-08302	11 - 11	9/3/1994	6	U
SB-08706	7.5 - 7.5	8/25/1994	6	U
SB-08706	10 - 10	8/25/1994	6	U
SB-08905	5 - 5	8/24/1994	6	U
SB-08905	7.5 - 7.5	8/24/1994	6	U
SB-08905	10 - 10	8/24/1994	6	U
SB-08917	1 - 1	8/23/1994	5	U
SB-08917	7.5 - 7.5	8/23/1994	7	U
SB-08917	10 - 10	8/23/1994	6	U
SB-08920	1 - 1	8/23/1994	5	U
SB-08920	7.5 - 7.5	8/23/1994	6	U
SB-08920	10 - 10	8/23/1994	6	U
SB-08909	5 - 5	8/19/1994	6	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Arsenic (mg/kg) - 2004 Soil Screening Level = 7.3 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08909	7.5 - 7.5	8/19/1994	5	U
SB-08909	10 - 10	8/19/1994	5	U
SB-08922	1 - 1	8/19/1994	5	U
SB-08922	5 - 5	8/19/1994	6	
SB-08922	10 - 10	8/19/1994	6	U
SB-08003	1.5 - 1.5	8/18/1994	6	U
SB-08003	8 - 8	8/18/1994	6	U
SB-08003	10 - 10	8/18/1994	6	U
SB-08004	3.5 - 3.5	8/18/1994	5	U
SB-08004	8 - 8	8/18/1994	5	U
SB-08004	12 - 12	8/18/1994	6	U
SB-08705	2.5 - 2.5	8/18/1994	5	U
SB-08705	5 - 5	8/18/1994	6	U
SB-08705	7.5 - 7.5	8/18/1994	7	U
SB-08919	2.5 - 2.5	8/18/1994	5	U
SB-08919	7.5 - 7.5	8/18/1994	7	U
SB-08919	10 - 10	8/18/1994	6	U
SB-08924	2.5 - 2.5	8/18/1994	5	U
SB-08924	2.5 - 2.5	8/18/1994	5	U
SB-08924	7.5 - 7.5	8/18/1994	7	U
SB-08924	10 - 10	8/18/1994	6	U
SB-08915	2 - 2	8/17/1994	5	U
SB-08915	5 - 5	8/17/1994	5	U
SB-08915	7.5 - 7.5	8/17/1994	10	
SB-09102	1 - 1	8/16/1994	5	U
SB-09102	1 - 1	8/16/1994	5	U
SB-09102	5 - 5	8/16/1994	6	U
SB-09102	7.5 - 7.5	8/16/1994	8	
SB-09103	2.5 - 2.5	8/16/1994	5	U
SB-09103	7.5 - 7.5	8/16/1994	10	
SB-09103	10 - 10	8/16/1994	6	U
SB-09104	1 - 1	8/16/1994	5	U
SB-09104	7.5 - 7.5	8/16/1994	7	U
SB-09104	10 - 10	8/16/1994	7	
SB-10401	10 - 10	3/15/1994	6	U
SB-08201	6.5 - 6.5	12/21/1993	1.3	
SB-08201	8 - 8	12/21/1993	1.4	
SB-08201	11 - 11	12/21/1993	1.7	
SB-08601	1.5 - 1.5	12/20/1993	1.8	
SB-08601	7 - 7	12/20/1993	7.3	
SB-08601	11 - 11	12/20/1993	2.2	
SB-08303	5 - 5	12/13/1993	8.3	
SB-08903	5 - 5	12/13/1993	2.5	
SB-08903	5 - 5	12/13/1993	2.5	
SB-08901	5 - 5	12/11/1993	3.4	
SB-08901	7.5 - 7.5	12/11/1993	2.1	
PL2-111A	1 - 1	12/9/1993	2.6	
PL2-111A	5 - 5	12/9/1993	4.6	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Arsenic (mg/kg) - 2004 Soil Screening Level = 7.3 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08602	1 - 1	12/9/1993	2.5	
SB-08602	5 - 5	12/9/1993	4	
SB-08904	1 - 1	12/9/1993	2.3	
SB-08904	5 - 5	12/9/1993	4.5	
SB-28201	1 - 1	12/9/1993	2	
SB-28201	5 - 5	12/9/1993	4	
SS-09101	0 - 0.5	11/29/1993	6	U
SS-09112	0 - 0.5	11/29/1993	6	U
SS-09103	0 - 0.5	11/24/1993	5	U
SS-09111	0 - 0.5	11/23/1993	5	U
SS-09111	0 - 0.5	11/23/1993	5	U
SS-09104	0 - 0.5	11/22/1993	5	U
SS-09102	0 - 0.5	11/19/1993	4	U
SS-09109	0 - 0.5	11/19/1993	4	U
SS-09106	0 - 0.5	11/18/1993	5	U
SS-09108	0 - 0.5	11/17/1993	5	U
SS-09110	0 - 0.5	11/17/1993	6	U
SS-09105	0 - 0.5	11/16/1993	5	U
SS-09107	0 - 0.5	11/16/1993	5	U
PL2-301A	5 - 5	7/8/1992	6	U
PL2-301A	10 - 10	7/8/1992	6	U
PL2-302A	5 - 5	7/8/1992	6	U
PL2-302A	10 - 10	7/8/1992	6	U
PL2-303A	5 - 5	7/8/1992	6	U
PL2-303A	10 - 10	7/8/1992	6	U
PL2-303A	10 - 10	7/8/1992	6	U
PL2-109B	9 - 9	7/7/1992	4	
PL2-109C	6 - 6	7/6/1992	3.2	
PL2-109C	9 - 9	7/6/1992	2	
PL2-105C	3 - 3	6/25/1992	1.3	
PL2-105C	10 - 10	6/25/1992	2.1	
PL2-104B	6 - 6	6/24/1992	5.3	
PL2-104B	11 - 11	6/24/1992	1.1	
PL2-110C	6 - 6	6/22/1992	1.9	
PL2-110C	9 - 9	6/22/1992	3.3	
PL2-106C	7 - 7	6/18/1992	4	
PL2-106C	12 - 12	6/18/1992	2.1	
288-16	4 - 4	8/14/1991	4	U
288-17	4 - 4	8/14/1991	4	U
288-18	4 - 4	8/14/1991	5	U
288-19	4 - 4	8/14/1991	5	U
288-20	4 - 4	8/14/1991	4	U
288-21	4 - 4	8/14/1991	4	U
288-22	4 - 4	8/14/1991	5	U
288-23	4 - 4	8/14/1991	5	U
288-24	4 - 4	8/14/1991	4	U
288-13	2 - 2	8/13/1991	4	U
288-15	2 - 2	8/13/1991	5	U

South Yard Area COC Results
Arsenic Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Arsenic (mg/kg) - 2004 Soil Screening Level = 7.3 mg/kg; PMCL = 7.3 mg/kg[3]				
CN4-N-B	11 - 11	9/16/1986	1.7	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999)

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Cadmium (mg/kg) - 2004 Soil Screening Level = 1.21 mg/kg; PMCL = 1.28 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	0.2	U
DP-SY-01	4 - 5	3/8/2005	0.3	
DP-SY-01	9 - 10	3/8/2005	0.3	
DP-SY-02	0 - 1	3/7/2005	0.4	
DP-SY-02	4 - 5	3/7/2005	0.2	U
DP-SY-02	9 - 10	3/7/2005	0.3	U
DP-SY-03	0 - 1	3/7/2005	0.2	U
DP-SY-03	4 - 5	3/7/2005	0.2	U
DP-SY-03	9 - 10	3/7/2005	0.2	
DP-SY-04	0 - 1	3/7/2005	0.4	
DP-SY-04	4 - 5	3/7/2005	0.2	U
DP-SY-04	9 - 10	3/7/2005	0.2	U
DP-SY-05	0 - 1	3/7/2005	0.2	U
DP-SY-05	4 - 5	3/7/2005	0.3	U
DP-SY-05	9 - 10	3/7/2005	0.3	U
DP-SY-06	0 - 1	3/7/2005	4.3	
DP-SY-06	4 - 5	3/7/2005	0.2	U
DP-SY-06	9 - 10	3/7/2005	0.2	U
DP-SY-07	0 - 1	3/7/2005	0.2	U
DP-SY-07	4 - 5	3/7/2005	0.2	U
DP-SY-07	9 - 10	3/7/2005	0.2	U
DP-SY-08	0 - 1	3/7/2005	0.8	
DP-SY-08	4 - 5	3/7/2005	0.3	U
DP-SY-08	9 - 10	3/7/2005	0.3	U
DP-SY-09	0 - 1	3/8/2005	0.2	U
DP-SY-09	4 - 5	3/8/2005	0.2	U
DP-SY-09	9 - 10	3/8/2005	0.2	U
DP-SY-10	0 - 1	3/8/2005	0.2	U
DP-SY-10	4 - 5	3/8/2005	0.2	U
DP-SY-10	9 - 10	3/8/2005	0.2	U
DP-SY-11	0 - 1	3/8/2005	0.2	U
DP-SY-11	4 - 5	3/8/2005	0.2	U
DP-SY-11	9 - 10	3/8/2005	0.2	U
DP-SY-12	0 - 1	3/8/2005	0.2	U
DP-SY-12	4 - 5	3/8/2005	0.2	U
DP-SY-12	9 - 10	3/8/2005	0.2	U
PL2-601A	0 - 1.5	3/1/2005	0.2	U
PL2-601A	3.5 - 5	3/1/2005	0.2	U
PL2-601A	8.5 - 10	3/1/2005	0.2	U
PL2-602A	0 - 1.5	3/1/2005	0.2	U
PL2-602A	3.5 - 5	3/1/2005	0.2	U
PL2-602A	8.5 - 10	3/1/2005	0.2	U
PL2-603A	0 - 1.5	2/28/2005	0.2	
PL2-603A	3.5 - 5	2/28/2005	0.2	U
PL2-603A	8.5 - 10	2/28/2005	0.2	U
SB-08334	4 - 5	4/23/2002	0.2	U
SB-08334	7.5 - 8.5	4/23/2002	0.2	U
SB-08335	4 - 5	4/23/2002	0.2	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Cadmium (mg/kg) - 2004 Soil Screening Level = 1.21 mg/kg; PMCL = 1.28 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	2.2	
SB-08332	4 - 5	4/15/2002	0.2	U
SB-08332	4 - 5	4/15/2002	0.2	U
SB-08332	9 - 10	4/15/2002	0.3	U
SB-08333	4 - 5	4/15/2002	0.2	U
SB-08333	9 - 10	4/15/2002	0.3	U
SB-08754	8 - 10	7/20/1999	0.3	U
SB-08949	8.5 - 10.5	6/22/1999	0.3	
SB-08950	8 - 10	6/20/1999	0.41946	
SB-08744	8 - 8	6/4/1999	0.2	U
SB-08746	8 - 8	6/4/1999	0.3	U
SB-08747	9 - 9	6/4/1999	0.4	
SB-08748	11 - 11	6/4/1999	0.3	U
SB-08743	11 - 11	6/3/1999	2.7	
SB-10410	5 - 5	5/26/1999	0.2	U
SB-08941	8 - 8	5/25/1999	0.6	
SB-08942	11 - 11	5/25/1999	0.3	U
SB-08943	11 - 11	5/25/1999	1.6	
SB-08944	11 - 11	5/25/1999	61	
SB-08945	8 - 8	5/25/1999	0.3	U
SB-10406	10 - 10	5/25/1999	0.3	U
SB-10407	5 - 5	5/25/1999	0.2	U
SB-10408	5 - 5	5/25/1999	0.4	
SB-10409	5 - 5	5/25/1999	0.2	U
SB-08716	3 - 5	11/25/1998	0.2	U
SB-08716	8 - 10	11/25/1998	0.3	U
SB-08717	3 - 5	11/25/1998	0.2	U
SB-08717	8 - 10	11/25/1998	0.3	U
SB-08718	3 - 5	11/25/1998	0.3	U
SB-08718	8 - 10	11/25/1998	0.2	U
SB-08719	3 - 5	11/25/1998	0.2	U
SB-08719	8 - 10	11/25/1998	0.3	U
SB-08720	3 - 5	11/25/1998	0.2	U
SB-08720	8 - 10	11/25/1998	0.3	U
SB-08721	3 - 5	11/25/1998	0.3	U
SB-08721	8 - 10	11/25/1998	0.3	U
SB-08722	3 - 5	11/25/1998	0.3	U
SB-08722	8 - 10	11/25/1998	0.3	U
SB-08723	3 - 5	11/25/1998	0.2	U
SB-08723	8 - 10	11/25/1998	0.3	U
SB-08724	3 - 5	11/25/1998	0.2	U
SB-08724	8 - 10	11/25/1998	0.3	U
SB-08930	3 - 5	11/24/1998	0.2	U
SB-08930	8 - 10	11/24/1998	0.2	U
SB-08931	3 - 5	11/24/1998	0.2	U
SB-08931	8 - 10	11/24/1998	0.2	U
SB-08932	3 - 5	11/24/1998	0.3	U
SB-08932	8 - 10	11/24/1998	0.3	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Cadmium (mg/kg) - 2004 Soil Screening Level = 1.21 mg/kg; PMCL = 1.28 mg/kg[3]				
SB-08933	3 - 5	11/24/1998	0.2	U
SB-08933	8 - 10	11/24/1998	0.2	U
SB-08934	3 - 5	11/24/1998	1.9	
SB-08934	8 - 10	11/24/1998	0.2	U
SB-08935	3 - 5	11/24/1998	0.2	U
SB-08935	8 - 10	11/24/1998	0.3	U
SB-08936	3 - 5	11/24/1998	1.8	
SB-08936	8 - 10	11/24/1998	0.3	U
SB-08937	3 - 5	11/24/1998	0.2	U
SB-08937	8 - 10	11/24/1998	0.3	U
SB-08938	3 - 5	11/24/1998	23.2	
SB-08938	8 - 10	11/24/1998	0.2	U
SB-08939	3 - 5	11/24/1998	0.2	U
SB-08939	8 - 10	11/24/1998	0.3	U
SB-08940	3 - 5	11/24/1998	0.2	U
SB-08940	8 - 10	11/24/1998	0.2	U
SB-08022	10 - 11	3/19/1998	0.3	U
SB-08020	10 - 11	3/18/1998	0.3	
SB-08021	9 - 10	3/18/1998	0.3	U
SB-08927	2 - 2	3/6/1995	0.2	U
SB-08927	6.5 - 6.5	3/6/1995	0.3	U
SB-08927	9.5 - 9.5	3/6/1995	0.3	U
SB-08929	2 - 2	3/6/1995	0.2	U
SB-08929	6.5 - 6.5	3/6/1995	0.2	U
SB-08929	9.5 - 9.5	3/6/1995	0.3	U
SB-08928	2.5 - 2.5	3/3/1995	0.2	U
SB-08928	4.5 - 4.5	3/3/1995	0.3	U
SB-08928	8.5 - 8.5	3/3/1995	0.3	U
SB-08926	2.5 - 2.5	3/2/1995	0.2	U
SB-08926	5.5 - 5.5	3/2/1995	0.3	
SB-08926	8.5 - 8.5	3/2/1995	0.2	U
SB-08305	1 - 1	2/22/1995	0.2	U
SB-08305	5 - 5	2/22/1995	0.2	U
SB-08009	0.6 - 0.6	2/16/1995	0.6	
SB-08009	6 - 6	2/16/1995	0.2	U
SB-08010	0.5 - 0.5	2/16/1995	0.2	U
SB-08010	6 - 6	2/16/1995	0.2	U
SB-08008	3.5 - 3.5	2/15/1995	0.2	U
SB-08008	6.5 - 6.5	2/15/1995	0.2	U
SB-08008	11.5 - 11.5	2/15/1995	0.2	U
SB-08604	1.5 - 1.5	9/19/1994	0.2	U
SB-08604	6 - 6	9/19/1994	0.3	U
SB-08604	9 - 9	9/19/1994	0.3	U
SB-10403	10.5 - 10.5	9/7/1994	0.3	U
SB-10404	1.5 - 1.5	9/7/1994	0.2	U
SB-10404	6.5 - 6.5	9/7/1994	0.3	U
SB-10404	10.5 - 10.5	9/7/1994	0.3	U
SB-10405	10.5 - 10.5	9/7/1994	0.3	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Cadmium (mg/kg) - 2004 Soil Screening Level = 1.21 mg/kg; PMCL = 1.28 mg/kg[3]				
SB-08301	1.5 - 1.5	9/3/1994	0.2	U
SB-08301	4.5 - 4.5	9/3/1994	0.3	
SB-08301	11.5 - 11.5	9/3/1994	0.3	U
SB-08302	2 - 2	9/3/1994	0.2	U
SB-08302	5 - 5	9/3/1994	0.3	U
SB-08302	11 - 11	9/3/1994	0.3	U
SB-08706	7.5 - 7.5	8/25/1994	0.2	U
SB-08706	10 - 10	8/25/1994	0.3	U
SB-08905	5 - 5	8/24/1994	40.9	
SB-08905	7.5 - 7.5	8/24/1994	0.2	U
SB-08905	10 - 10	8/24/1994	0.2	U
SB-08917	1 - 1	8/23/1994	0.2	U
SB-08917	7.5 - 7.5	8/23/1994	0.3	
SB-08917	10 - 10	8/23/1994	0.3	U
SB-08920	1 - 1	8/23/1994	0.4	
SB-08920	7.5 - 7.5	8/23/1994	0.4	
SB-08920	10 - 10	8/23/1994	0.3	U
SB-08909	5 - 5	8/19/1994	255	
SB-08909	7.5 - 7.5	8/19/1994	0.2	U
SB-08909	10 - 10	8/19/1994	0.3	
SB-08922	1 - 1	8/19/1994	0.2	U
SB-08922	5 - 5	8/19/1994	0.2	U
SB-08922	10 - 10	8/19/1994	0.2	U
SB-08003	1.5 - 1.5	8/18/1994	0.2	U
SB-08003	8 - 8	8/18/1994	0.2	U
SB-08003	10 - 10	8/18/1994	0.3	U
SB-08004	3.5 - 3.5	8/18/1994	0.2	U
SB-08004	8 - 8	8/18/1994	0.2	U
SB-08004	12 - 12	8/18/1994	0.2	U
SB-08705	2.5 - 2.5	8/18/1994	0.2	U
SB-08705	5 - 5	8/18/1994	0.2	U
SB-08705	7.5 - 7.5	8/18/1994	0.3	U
SB-08919	2.5 - 2.5	8/18/1994	0.2	U
SB-08919	7.5 - 7.5	8/18/1994	0.3	U
SB-08919	10 - 10	8/18/1994	0.4	
SB-08924	2.5 - 2.5	8/18/1994	0.2	U
SB-08924	2.5 - 2.5	8/18/1994	0.2	
SB-08924	7.5 - 7.5	8/18/1994	0.3	U
SB-08924	10 - 10	8/18/1994	0.2	U
SB-08915	2 - 2	8/17/1994	0.5	
SB-08915	5 - 5	8/17/1994	0.2	U
SB-08915	7.5 - 7.5	8/17/1994	0.3	
SB-09102	1 - 1	8/16/1994	0.2	U
SB-09102	1 - 1	8/16/1994	0.2	U
SB-09102	5 - 5	8/16/1994	0.3	U
SB-09102	7.5 - 7.5	8/16/1994	0.2	U
SB-09103	2.5 - 2.5	8/16/1994	0.2	U
SB-09103	7.5 - 7.5	8/16/1994	0.3	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Cadmium (mg/kg) - 2004 Soil Screening Level = 1.21 mg/kg; PMCL = 1.28 mg/kg[3]				
SB-09103	10 - 10	8/16/1994	0.3	U
SB-09104	1 - 1	8/16/1994	0.2	U
SB-09104	7.5 - 7.5	8/16/1994	0.3	U
SB-09104	10 - 10	8/16/1994	0.2	U
SB-10401	10 - 10	3/15/1994	0.3	
SB-08201	6.5 - 6.5	12/21/1993	0.3	
SB-08201	8 - 8	12/21/1993	0.2	U
SB-08201	11 - 11	12/21/1993	0.3	U
SB-08601	1.5 - 1.5	12/20/1993	0.2	U
SB-08601	7 - 7	12/20/1993	0.4	
SB-08601	11 - 11	12/20/1993	0.2	U
SB-08303	5 - 5	12/13/1993	0.3	U
SB-08903	5 - 5	12/13/1993	0.2	U
SB-08903	5 - 5	12/13/1993	0.2	U
SB-08901	5 - 5	12/11/1993	0.3	U
SB-08901	7.5 - 7.5	12/11/1993	0.3	
PL2-111A	1 - 1	12/9/1993	0.2	U
PL2-111A	5 - 5	12/9/1993	0.2	U
SB-08602	1 - 1	12/9/1993	0.2	U
SB-08602	5 - 5	12/9/1993	0.2	U
SB-08904	1 - 1	12/9/1993	0.2	U
SB-08904	5 - 5	12/9/1993	0.2	U
SB-28201	1 - 1	12/9/1993	0.2	U
SB-28201	5 - 5	12/9/1993	0.2	U
SS-09101	0 - 0.5	11/29/1993	4.5	
SS-09112	0 - 0.5	11/29/1993	0.2	U
SS-09103	0 - 0.5	11/24/1993	0.3	
SS-09111	0 - 0.5	11/23/1993	0.2	U
SS-09111	0 - 0.5	11/23/1993	0.3	
SS-09104	0 - 0.5	11/22/1993	2.3	
SS-09102	0 - 0.5	11/19/1993	0.3	
SS-09109	0 - 0.5	11/19/1993	0.7	
SS-09106	0 - 0.5	11/18/1993	0.2	U
SS-09108	0 - 0.5	11/17/1993	0.7	
SS-09110	0 - 0.5	11/17/1993	0.2	U
SS-09105	0 - 0.5	11/16/1993	4.3	
SS-09107	0 - 0.5	11/16/1993	0.8	
PL2-301A	5 - 5	7/8/1992	0.8	
PL2-301A	10 - 10	7/8/1992	0.3	
PL2-302A	5 - 5	7/8/1992	0.2	U
PL2-302A	10 - 10	7/8/1992	0.5	
PL2-303A	5 - 5	7/8/1992	0.2	U
PL2-303A	10 - 10	7/8/1992	0.3	U
PL2-303A	10 - 10	7/8/1992	0.3	U
PL2-109B	9 - 9	7/7/1992	0.3	U
PL2-109C	6 - 6	7/6/1992	0.3	U
PL2-109C	9 - 9	7/6/1992	0.3	U
PL2-105C	3 - 3	6/25/1992	0.3	

South Yard Area COC Results
Cadmium Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Cadmium (mg/kg) - 2004 Soil Screening Level = 1.21 mg/kg; PMCL = 1.28 mg/kg[3]				
PL2-105C	10 - 10	6/25/1992	0.3	U
PL2-104B	6 - 6	6/24/1992	0.3	U
PL2-104B	11 - 11	6/24/1992	0.3	U
PL2-110C	6 - 6	6/22/1992	0.2	U
PL2-110C	9 - 9	6/22/1992	0.3	U
PL2-106C	7 - 7	6/18/1992	0.3	U
PL2-106C	12 - 12	6/18/1992	0.2	U
288-16	4 - 4	8/14/1991	0.1	U
288-17	4 - 4	8/14/1991	0.2	U
288-18	4 - 4	8/14/1991	0.2	U
288-19	4 - 4	8/14/1991	0.4	
288-20	4 - 4	8/14/1991	0.2	U
288-21	4 - 4	8/14/1991	0.2	U
288-22	4 - 4	8/14/1991	0.2	U
288-23	4 - 4	8/14/1991	0.2	U
288-24	4 - 4	8/14/1991	0.2	U
288-13	2 - 2	8/13/1991	0.2	U
288-15	2 - 2	8/13/1991	0.2	U
CN4-N-B	11 - 11	9/16/1986	3700	
PL2-101A	11 - 11	10/28/1985	0.1	U
PL2-103A	4 - 4	10/28/1985	0.1	U
PL2-103A	7 - 7	10/28/1985	0.4	
PL2-103A	10 - 10	10/28/1985	0.5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Hexavalent Chromium Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Hexavalent Chromium (mg/kg) - 2004 Soil Screening Level = 19.2 mg/kg; PMCL = NA mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	0.118	U
DP-SY-01	4 - 5	3/8/2005	0.147	U
DP-SY-01	9 - 10	3/8/2005	0.132	U
DP-SY-02	0 - 1	3/7/2005	0.114	U
DP-SY-02	4 - 5	3/7/2005	0.11	U
DP-SY-02	9 - 10	3/7/2005	0.122	U
DP-SY-03	0 - 1	3/7/2005	0.104	U
DP-SY-03	4 - 5	3/7/2005	0.118	U
DP-SY-03	9 - 10	3/7/2005	0.128	U
DP-SY-04	0 - 1	3/7/2005	0.106	U
DP-SY-04	4 - 5	3/7/2005	0.105	U
DP-SY-04	9 - 10	3/7/2005	0.131	U
DP-SY-05	0 - 1	3/7/2005	0.117	U
DP-SY-05	4 - 5	3/7/2005	0.117	U
DP-SY-05	9 - 10	3/7/2005	0.106	U
SB-08008	3.5 - 3.5	2/15/1995	0.22	U
SB-08008	6.5 - 6.5	2/15/1995	0.22	
SB-08008	11.5 - 11.5	2/15/1995	0.53	
SB-08706	7.5 - 7.5	8/25/1994	0.25	U
SB-08706	10 - 10	8/25/1994	0.26	U
SB-08905	5 - 5	8/24/1994	0.26	U
SB-08905	7.5 - 7.5	8/24/1994	0.23	
SB-08905	10 - 10	8/24/1994	0.25	U
SB-08909	5 - 5	8/19/1994	0.26	UJH
SB-08909	7.5 - 7.5	8/19/1994	0.26	UJH
SB-08909	10 - 10	8/19/1994	0.27	UJH
SB-08705	2.5 - 2.5	8/18/1994	0.22	UJH
SB-08705	5 - 5	8/18/1994	0.28	UJH
SB-08705	7.5 - 7.5	8/18/1994	0.28	UJH
SB-08201	6.5 - 6.5	12/21/1993	0.22	UJH
SB-08201	8 - 8	12/21/1993	0.23	UJH
SB-08201	11 - 11	12/21/1993	0.27	UJH
CN4-N-B	11 - 11	9/16/1986	1300	
PL2-101A	11 - 11	10/28/1985	0.5	U
PL2-103A	4 - 4	10/28/1985	0.5	U
PL2-103A	7 - 7	10/28/1985	1.5	
PL2-103A	10 - 10	10/28/1985	0.5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Copper Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Copper (mg/kg) - 2004 Soil Screening Level = 36.4 mg/kg; PMCL = 36.4 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	12.2	
DP-SY-01	4 - 5	3/8/2005	30	
DP-SY-01	9 - 10	3/8/2005	24.4	
DP-SY-02	0 - 1	3/7/2005	32.9	
DP-SY-02	4 - 5	3/7/2005	13.5	
DP-SY-02	9 - 10	3/7/2005	31.5	
DP-SY-03	0 - 1	3/7/2005	12.8	
DP-SY-03	4 - 5	3/7/2005	10.8	
DP-SY-03	9 - 10	3/7/2005	20.6	
DP-SY-04	0 - 1	3/7/2005	17.7	
DP-SY-04	4 - 5	3/7/2005	12.9	
DP-SY-04	9 - 10	3/7/2005	13.6	
DP-SY-05	0 - 1	3/7/2005	9.1	
DP-SY-05	4 - 5	3/7/2005	13.2	
DP-SY-05	9 - 10	3/7/2005	15.5	
DP-SY-06	0 - 1	3/7/2005	25.1	
DP-SY-06	4 - 5	3/7/2005	12.8	
DP-SY-06	9 - 10	3/7/2005	24.2	
DP-SY-07	0 - 1	3/7/2005	11.3	
DP-SY-07	4 - 5	3/7/2005	9.2	
DP-SY-07	9 - 10	3/7/2005	16.5	
DP-SY-08	0 - 1	3/7/2005	25.3	
DP-SY-08	4 - 5	3/7/2005	32	
DP-SY-08	9 - 10	3/7/2005	25.4	
DP-SY-09	0 - 1	3/8/2005	12.2	
DP-SY-09	4 - 5	3/8/2005	13.7	
DP-SY-09	9 - 10	3/8/2005	13.1	
DP-SY-10	0 - 1	3/8/2005	13.1	
DP-SY-10	4 - 5	3/8/2005	11.6	
DP-SY-10	9 - 10	3/8/2005	22	
DP-SY-11	0 - 1	3/8/2005	9	
DP-SY-11	4 - 5	3/8/2005	9.4	
DP-SY-11	9 - 10	3/8/2005	23.8	
DP-SY-12	0 - 1	3/8/2005	11.7	
DP-SY-12	4 - 5	3/8/2005	9.9	
DP-SY-12	9 - 10	3/8/2005	9.9	
PL2-601A	0 - 1.5	3/1/2005	12.2	
PL2-601A	3.5 - 5	3/1/2005	9.2	
PL2-601A	8.5 - 10	3/1/2005	14.2	
PL2-602A	0 - 1.5	3/1/2005	9.5	
PL2-602A	3.5 - 5	3/1/2005	13	
PL2-602A	8.5 - 10	3/1/2005	17.8	
PL2-603A	0 - 1.5	2/28/2005	30	
PL2-603A	3.5 - 5	2/28/2005	13.6	
PL2-603A	8.5 - 10	2/28/2005	14.7	
SB-08334	4 - 5	4/23/2002	1.3	
SB-08334	7.5 - 8.5	4/23/2002	12.2	
SB-08335	4 - 5	4/23/2002	12.2	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Copper (mg/kg) - 2004 Soil Screening Level = 36.4 mg/kg; PMCL = 36.4 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	13.7	
SB-08332	4 - 5	4/15/2002	9.1	
SB-08332	4 - 5	4/15/2002	8.3	
SB-08332	9 - 10	4/15/2002	18.8	
SB-08333	4 - 5	4/15/2002	14	
SB-08333	9 - 10	4/15/2002	23.9	
SB-08754	8 - 10	7/20/1999	17.1	
SB-08949	8.5 - 10.5	6/22/1999	19.6	
SB-08950	8 - 10	6/20/1999	29.52402	
SB-08744	8 - 8	6/4/1999	16.4	
SB-08746	8 - 8	6/4/1999	26.1	
SB-08747	9 - 9	6/4/1999	34.9	
SB-08748	11 - 11	6/4/1999	17.3	
SB-08743	11 - 11	6/3/1999	68.6	
SB-10410	5 - 5	5/26/1999	9.1	
SB-08941	8 - 8	5/25/1999	34.9	
SB-08942	11 - 11	5/25/1999	22.2	
SB-08943	11 - 11	5/25/1999	21.2	
SB-08944	11 - 11	5/25/1999	11.9	
SB-08945	8 - 8	5/25/1999	23.1	
SB-10406	10 - 10	5/25/1999	9.2	
SB-10407	5 - 5	5/25/1999	8.7	
SB-10408	5 - 5	5/25/1999	16.8	
SB-10409	5 - 5	5/25/1999	11.1	
SB-08716	3 - 5	11/25/1998	13.5	
SB-08716	8 - 10	11/25/1998	23.8	
SB-08717	3 - 5	11/25/1998	14.5	
SB-08717	8 - 10	11/25/1998	16.5	
SB-08718	3 - 5	11/25/1998	11.1	
SB-08718	8 - 10	11/25/1998	13.6	
SB-08719	3 - 5	11/25/1998	12.2	
SB-08719	8 - 10	11/25/1998	13.9	
SB-08720	3 - 5	11/25/1998	8.5	
SB-08720	8 - 10	11/25/1998	15.3	
SB-08721	3 - 5	11/25/1998	9.6	
SB-08721	8 - 10	11/25/1998	18.6	
SB-08722	3 - 5	11/25/1998	13.1	
SB-08722	8 - 10	11/25/1998	22	
SB-08723	3 - 5	11/25/1998	12.2	
SB-08723	8 - 10	11/25/1998	14.7	
SB-08724	3 - 5	11/25/1998	11.1	
SB-08724	8 - 10	11/25/1998	26.9	
SB-08930	3 - 5	11/24/1998	8.4	
SB-08930	8 - 10	11/24/1998	13.1	
SB-08931	3 - 5	11/24/1998	12.6	
SB-08931	8 - 10	11/24/1998	11.2	
SB-08932	3 - 5	11/24/1998	20.5	
SB-08932	8 - 10	11/24/1998	14.4	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Copper (mg/kg) - 2004 Soil Screening Level = 36.4 mg/kg; PMCL = 36.4 mg/kg[3]				
SB-08933	3 - 5	11/24/1998	8.6	
SB-08933	8 - 10	11/24/1998	13.8	
SB-08934	3 - 5	11/24/1998	9.3	
SB-08934	8 - 10	11/24/1998	13.7	
SB-08935	3 - 5	11/24/1998	12.1	
SB-08935	8 - 10	11/24/1998	14.4	
SB-08936	3 - 5	11/24/1998	9.5	
SB-08936	8 - 10	11/24/1998	14.4	
SB-08937	3 - 5	11/24/1998	9	
SB-08937	8 - 10	11/24/1998	28.4	
SB-08938	3 - 5	11/24/1998	9.6	
SB-08938	8 - 10	11/24/1998	13.8	
SB-08939	3 - 5	11/24/1998	8	
SB-08939	8 - 10	11/24/1998	17.1	
SB-08940	3 - 5	11/24/1998	9.6	
SB-08940	8 - 10	11/24/1998	11.2	
SB-08022	10 - 11	3/19/1998	23.5	
SB-08020	10 - 11	3/18/1998	40.1	
SB-08021	9 - 10	3/18/1998	25.7	
SB-08927	2 - 2	3/6/1995	7.4	
SB-08927	6.5 - 6.5	3/6/1995	20.2	
SB-08927	9.5 - 9.5	3/6/1995	11.5	
SB-08929	2 - 2	3/6/1995	7.2	
SB-08929	6.5 - 6.5	3/6/1995	21	
SB-08929	9.5 - 9.5	3/6/1995	12.9	
SB-08928	2.5 - 2.5	3/3/1995	7.1	
SB-08928	4.5 - 4.5	3/3/1995	14.5	
SB-08928	8.5 - 8.5	3/3/1995	18.3	
SB-08926	2.5 - 2.5	3/2/1995	7.7	J
SB-08926	5.5 - 5.5	3/2/1995	32.4	J
SB-08926	8.5 - 8.5	3/2/1995	10.6	J
SB-08305	1 - 1	2/22/1995	10.3	
SB-08305	5 - 5	2/22/1995	16.3	
SB-08009	0.6 - 0.6	2/16/1995	11.7	
SB-08009	6 - 6	2/16/1995	10.4	
SB-08010	0.5 - 0.5	2/16/1995	21.4	
SB-08010	6 - 6	2/16/1995	17.7	
SB-08008	3.5 - 3.5	2/15/1995	8.8	
SB-08008	6.5 - 6.5	2/15/1995	9	
SB-08008	11.5 - 11.5	2/15/1995	16.3	
SB-08604	1.5 - 1.5	9/19/1994	9.1	
SB-08604	6 - 6	9/19/1994	8.8	
SB-08604	9 - 9	9/19/1994	26.4	
SB-10403	10.5 - 10.5	9/7/1994	10.4	
SB-10404	1.5 - 1.5	9/7/1994	7.5	
SB-10404	6.5 - 6.5	9/7/1994	10.4	
SB-10404	10.5 - 10.5	9/7/1994	9.2	
SB-10405	10.5 - 10.5	9/7/1994	25.4	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Copper (mg/kg) - 2004 Soil Screening Level = 36.4 mg/kg; PMCL = 36.4 mg/kg[3]				
SB-08301	1.5 - 1.5	9/3/1994	10.1	
SB-08301	4.5 - 4.5	9/3/1994	40	
SB-08301	11.5 - 11.5	9/3/1994	18.4	
SB-08302	2 - 2	9/3/1994	11.8	
SB-08302	5 - 5	9/3/1994	19.8	
SB-08302	11 - 11	9/3/1994	9.9	
SB-08706	7.5 - 7.5	8/25/1994	14.9	
SB-08706	10 - 10	8/25/1994	11.5	
SB-08905	5 - 5	8/24/1994	42.6	
SB-08905	7.5 - 7.5	8/24/1994	10.6	
SB-08905	10 - 10	8/24/1994	8.7	
SB-08917	1 - 1	8/23/1994	7.1	
SB-08917	7.5 - 7.5	8/23/1994	24.4	
SB-08917	10 - 10	8/23/1994	25.3	
SB-08920	1 - 1	8/23/1994	9.1	
SB-08920	7.5 - 7.5	8/23/1994	18.9	
SB-08920	10 - 10	8/23/1994	12.5	
SB-08909	5 - 5	8/19/1994	17.8	
SB-08909	7.5 - 7.5	8/19/1994	13.7	
SB-08909	10 - 10	8/19/1994	13.2	
SB-08922	1 - 1	8/19/1994	8.3	
SB-08922	5 - 5	8/19/1994	13	
SB-08922	10 - 10	8/19/1994	14.5	
SB-08003	1.5 - 1.5	8/18/1994	14.5	
SB-08003	8 - 8	8/18/1994	18.6	
SB-08003	10 - 10	8/18/1994	21.5	
SB-08004	3.5 - 3.5	8/18/1994	9.5	
SB-08004	8 - 8	8/18/1994	12.7	
SB-08004	12 - 12	8/18/1994	12.7	
SB-08705	2.5 - 2.5	8/18/1994	8.3	
SB-08705	5 - 5	8/18/1994	19.5	
SB-08705	7.5 - 7.5	8/18/1994	21.6	
SB-08919	2.5 - 2.5	8/18/1994	12.2	
SB-08919	7.5 - 7.5	8/18/1994	26.3	
SB-08919	10 - 10	8/18/1994	11.7	
SB-08924	2.5 - 2.5	8/18/1994	9.9	
SB-08924	2.5 - 2.5	8/18/1994	9.3	
SB-08924	7.5 - 7.5	8/18/1994	32.1	
SB-08924	10 - 10	8/18/1994	18.3	
SB-08915	2 - 2	8/17/1994	13.9	
SB-08915	5 - 5	8/17/1994	11.9	
SB-08915	7.5 - 7.5	8/17/1994	27.1	
SB-09102	1 - 1	8/16/1994	8.1	
SB-09102	1 - 1	8/16/1994	7.8	
SB-09102	5 - 5	8/16/1994	15.9	
SB-09102	7.5 - 7.5	8/16/1994	28.3	
SB-09103	2.5 - 2.5	8/16/1994	7.8	
SB-09103	7.5 - 7.5	8/16/1994	27.8	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Copper (mg/kg) - 2004 Soil Screening Level = 36.4 mg/kg; PMCL = 36.4 mg/kg[3]				
SB-09103	10 - 10	8/16/1994	18	
SB-09104	1 - 1	8/16/1994	9.3	
SB-09104	7.5 - 7.5	8/16/1994	25.9	
SB-09104	10 - 10	8/16/1994	22	
SB-10401	10 - 10	3/15/1994	10.2	
SB-08201	6.5 - 6.5	12/21/1993	10.4	
SB-08201	8 - 8	12/21/1993	9.9	
SB-08201	11 - 11	12/21/1993	12.8	
SB-08601	1.5 - 1.5	12/20/1993	8.8	
SB-08601	7 - 7	12/20/1993	30.8	
SB-08601	11 - 11	12/20/1993	12.6	
SB-08303	5 - 5	12/13/1993	32.2	
SB-08903	5 - 5	12/13/1993	12.6	
SB-08903	5 - 5	12/13/1993	16.4	
SB-08901	5 - 5	12/11/1993	20.6	
SB-08901	7.5 - 7.5	12/11/1993	19.9	
PL2-111A	1 - 1	12/9/1993	10.5	
PL2-111A	5 - 5	12/9/1993	18.3	
SB-08602	1 - 1	12/9/1993	8.1	
SB-08602	5 - 5	12/9/1993	26.4	
SB-08904	1 - 1	12/9/1993	8.6	
SB-08904	5 - 5	12/9/1993	16.7	
SB-28201	1 - 1	12/9/1993	7.7	
SB-28201	5 - 5	12/9/1993	8.9	
SS-09101	0 - 0.5	11/29/1993	29.9	
SS-09112	0 - 0.5	11/29/1993	22.5	J
SS-09103	0 - 0.5	11/24/1993	35	
SS-09111	0 - 0.5	11/23/1993	22.2	
SS-09111	0 - 0.5	11/23/1993	31.3	
SS-09104	0 - 0.5	11/22/1993	118	
SS-09102	0 - 0.5	11/19/1993	20.6	
SS-09109	0 - 0.5	11/19/1993	17.8	
SS-09106	0 - 0.5	11/18/1993	27.8	
SS-09108	0 - 0.5	11/17/1993	43.5	
SS-09110	0 - 0.5	11/17/1993	14.2	
SS-09105	0 - 0.5	11/16/1993	31.7	
SS-09107	0 - 0.5	11/16/1993	41.5	
PL2-301A	5 - 5	7/8/1992	45.1	
PL2-301A	10 - 10	7/8/1992	12.9	
PL2-302A	5 - 5	7/8/1992	19.1	
PL2-302A	10 - 10	7/8/1992	19	
PL2-303A	5 - 5	7/8/1992	28.1	
PL2-303A	10 - 10	7/8/1992	15.8	
PL2-303A	10 - 10	7/8/1992	20.2	
PL2-109B	9 - 9	7/7/1992	24.1	
PL2-109C	6 - 6	7/6/1992	12.2	
PL2-109C	9 - 9	7/6/1992	15.5	
PL2-105C	3 - 3	6/25/1992	8.3	

South Yard Area COC Results
Copper Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Copper (mg/kg) - 2004 Soil Screening Level = 36.4 mg/kg; PMCL = 36.4 mg/kg[3]				
PL2-105C	10 - 10	6/25/1992	16.9	
PL2-104B	6 - 6	6/24/1992	23	
PL2-104B	11 - 11	6/24/1992	15.8	
PL2-110C	6 - 6	6/22/1992	9.3	
PL2-110C	9 - 9	6/22/1992	21.5	
PL2-106C	7 - 7	6/18/1992	21.8	
PL2-106C	12 - 12	6/18/1992	13.4	
288-16	4 - 4	8/14/1991	10.2	
288-17	4 - 4	8/14/1991	10	
288-18	4 - 4	8/14/1991	9.8	
288-19	4 - 4	8/14/1991	17.5	
288-20	4 - 4	8/14/1991	16.1	
288-21	4 - 4	8/14/1991	8.2	
288-22	4 - 4	8/14/1991	11.5	
288-23	4 - 4	8/14/1991	8	
288-24	4 - 4	8/14/1991	8.4	
288-13	2 - 2	8/13/1991	8.9	
288-15	2 - 2	8/13/1991	7.2	
CN4-N-B	11 - 11	9/16/1986	830	
PL2-101A	11 - 11	10/28/1985	12	
PL2-103A	4 - 4	10/28/1985	16	
PL2-103A	7 - 7	10/28/1985	17	
PL2-103A	10 - 10	10/28/1985	50	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Mercury (mg/kg) - 2004 Soil Screening Level = 0.07 mg/kg; PMCL = 0.07 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	0.05	U
DP-SY-01	4 - 5	3/8/2005	0.07	U
DP-SY-01	9 - 10	3/8/2005	0.06	U
DP-SY-02	0 - 1	3/7/2005	0.04	
DP-SY-02	4 - 5	3/7/2005	0.05	U
DP-SY-02	9 - 10	3/7/2005	0.07	
DP-SY-03	0 - 1	3/7/2005	0.05	
DP-SY-03	4 - 5	3/7/2005	0.05	U
DP-SY-03	9 - 10	3/7/2005	0.06	
DP-SY-04	0 - 1	3/7/2005	0.09	
DP-SY-04	4 - 5	3/7/2005	0.04	U
DP-SY-04	9 - 10	3/7/2005	0.05	U
DP-SY-05	0 - 1	3/7/2005	0.04	U
DP-SY-05	4 - 5	3/7/2005	0.05	U
DP-SY-05	9 - 10	3/7/2005	0.05	U
DP-SY-06	0 - 1	3/7/2005	0.06	U
DP-SY-06	4 - 5	3/7/2005	0.05	U
DP-SY-06	9 - 10	3/7/2005	0.05	U
DP-SY-07	0 - 1	3/7/2005	0.04	U
DP-SY-07	4 - 5	3/7/2005	0.04	U
DP-SY-07	9 - 10	3/7/2005	0.05	U
DP-SY-08	0 - 1	3/7/2005	0.08	
DP-SY-08	4 - 5	3/7/2005	0.1	
DP-SY-08	9 - 10	3/7/2005	0.07	U
DP-SY-09	0 - 1	3/8/2005	0.05	U
DP-SY-09	4 - 5	3/8/2005	0.06	U
DP-SY-09	9 - 10	3/8/2005	0.05	U
DP-SY-10	0 - 1	3/8/2005	0.04	U
DP-SY-10	4 - 5	3/8/2005	0.04	U
DP-SY-10	9 - 10	3/8/2005	0.06	U
DP-SY-11	0 - 1	3/8/2005	0.05	U
DP-SY-11	4 - 5	3/8/2005	0.05	
DP-SY-11	9 - 10	3/8/2005	0.05	U
DP-SY-12	0 - 1	3/8/2005	0.05	U
DP-SY-12	4 - 5	3/8/2005	0.05	U
DP-SY-12	9 - 10	3/8/2005	0.04	U
PL2-601A	0 - 1.5	3/1/2005	0.05	U
PL2-601A	3.5 - 5	3/1/2005	0.05	U
PL2-601A	8.5 - 10	3/1/2005	0.05	U
PL2-602A	0 - 1.5	3/1/2005	0.04	U
PL2-602A	3.5 - 5	3/1/2005	0.05	U
PL2-602A	8.5 - 10	3/1/2005	0.06	U
PL2-603A	0 - 1.5	2/28/2005	0.04	U
PL2-603A	3.5 - 5	2/28/2005	0.05	
PL2-603A	8.5 - 10	2/28/2005	0.04	U
SB-08334	4 - 5	4/23/2002	0.05	U
SB-08334	7.5 - 8.5	4/23/2002	0.05	U
SB-08335	4 - 5	4/23/2002	0.05	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Mercury (mg/kg) - 2004 Soil Screening Level = 0.07 mg/kg; PMCL = 0.07 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	0.06	U
SB-08332	4 - 5	4/15/2002	0.05	U
SB-08332	4 - 5	4/15/2002	0.05	U
SB-08332	9 - 10	4/15/2002	0.06	U
SB-08333	4 - 5	4/15/2002	0.05	U
SB-08333	9 - 10	4/15/2002	0.06	U
SB-10410	5 - 5	5/26/1999	0.05	U
SB-10406	10 - 10	5/25/1999	0.06	U
SB-10407	5 - 5	5/25/1999	0.05	U
SB-10408	5 - 5	5/25/1999	0.07	U
SB-10409	5 - 5	5/25/1999	0.04	U
SB-08716	3 - 5	11/25/1998	0.06	U
SB-08716	8 - 10	11/25/1998	0.06	U
SB-08717	3 - 5	11/25/1998	0.05	U
SB-08717	8 - 10	11/25/1998	0.07	U
SB-08718	3 - 5	11/25/1998	0.07	U
SB-08718	8 - 10	11/25/1998	0.06	U
SB-08719	3 - 5	11/25/1998	0.06	U
SB-08719	8 - 10	11/25/1998	0.06	U
SB-08720	3 - 5	11/25/1998	0.06	U
SB-08720	8 - 10	11/25/1998	0.06	U
SB-08721	3 - 5	11/25/1998	0.06	U
SB-08721	8 - 10	11/25/1998	0.06	U
SB-08722	3 - 5	11/25/1998	0.06	U
SB-08722	8 - 10	11/25/1998	0.07	U
SB-08723	3 - 5	11/25/1998	0.06	U
SB-08723	8 - 10	11/25/1998	0.06	U
SB-08724	3 - 5	11/25/1998	0.05	U
SB-08724	8 - 10	11/25/1998	0.07	U
SB-08930	3 - 5	11/24/1998	0.06	U
SB-08930	8 - 10	11/24/1998	0.06	U
SB-08931	3 - 5	11/24/1998	0.06	U
SB-08931	8 - 10	11/24/1998	0.06	U
SB-08932	3 - 5	11/24/1998	0.06	U
SB-08932	8 - 10	11/24/1998	0.06	U
SB-08933	3 - 5	11/24/1998	0.05	U
SB-08933	8 - 10	11/24/1998	0.06	U
SB-08934	3 - 5	11/24/1998	0.05	U
SB-08934	8 - 10	11/24/1998	0.06	U
SB-08935	3 - 5	11/24/1998	0.06	U
SB-08935	8 - 10	11/24/1998	0.06	U
SB-08936	3 - 5	11/24/1998	0.06	U
SB-08936	8 - 10	11/24/1998	0.06	U
SB-08937	3 - 5	11/24/1998	0.06	U
SB-08937	8 - 10	11/24/1998	0.07	U
SB-08938	3 - 5	11/24/1998	0.05	U
SB-08938	8 - 10	11/24/1998	0.06	U
SB-08939	3 - 5	11/24/1998	0.06	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Mercury (mg/kg) - 2004 Soil Screening Level = 0.07 mg/kg; PMCL = 0.07 mg/kg[3]				
SB-08939	8 - 10	11/24/1998	0.06	U
SB-08940	3 - 5	11/24/1998	0.05	U
SB-08940	8 - 10	11/24/1998	0.06	U
SB-08022	10 - 11	3/19/1998	0.07	
SB-08020	10 - 11	3/18/1998	0.08	
SB-08021	9 - 10	3/18/1998	0.06	U
SB-08927	2 - 2	3/6/1995	0.05	U
SB-08927	6.5 - 6.5	3/6/1995	0.06	U
SB-08927	9.5 - 9.5	3/6/1995	0.07	U
SB-08929	2 - 2	3/6/1995	0.05	U
SB-08929	6.5 - 6.5	3/6/1995	0.07	
SB-08929	9.5 - 9.5	3/6/1995	0.06	U
SB-08928	2.5 - 2.5	3/3/1995	0.05	U
SB-08928	4.5 - 4.5	3/3/1995	0.06	U
SB-08928	8.5 - 8.5	3/3/1995	0.05	U
SB-08926	2.5 - 2.5	3/2/1995	0.05	U
SB-08926	5.5 - 5.5	3/2/1995	0.06	U
SB-08926	8.5 - 8.5	3/2/1995	0.05	U
SB-08305	1 - 1	2/22/1995	0.05	U
SB-08305	5 - 5	2/22/1995	0.05	U
SB-08009	0.6 - 0.6	2/16/1995	0.05	UJ
SB-08009	6 - 6	2/16/1995	0.06	UJ
SB-08010	0.5 - 0.5	2/16/1995	0.04	UJ
SB-08010	6 - 6	2/16/1995	0.06	J
SB-08008	3.5 - 3.5	2/15/1995	0.05	UJ
SB-08008	6.5 - 6.5	2/15/1995	0.05	UJ
SB-08008	11.5 - 11.5	2/15/1995	0.05	UJ
SB-08604	1.5 - 1.5	9/19/1994	0.05	U
SB-08604	6 - 6	9/19/1994	0.06	U
SB-08604	9 - 9	9/19/1994	0.06	U
SB-10403	10.5 - 10.5	9/7/1994	0.05	U
SB-10404	1.5 - 1.5	9/7/1994	0.05	U
SB-10404	6.5 - 6.5	9/7/1994	0.06	U
SB-10404	10.5 - 10.5	9/7/1994	0.07	U
SB-10405	10.5 - 10.5	9/7/1994	0.06	U
SB-08301	1.5 - 1.5	9/3/1994	0.05	U
SB-08301	4.5 - 4.5	9/3/1994	0.11	
SB-08301	11.5 - 11.5	9/3/1994	0.05	U
SB-08302	2 - 2	9/3/1994	0.05	U
SB-08302	5 - 5	9/3/1994	0.06	U
SB-08302	11 - 11	9/3/1994	0.06	U
SB-08706	7.5 - 7.5	8/25/1994	0.05	U
SB-08706	10 - 10	8/25/1994	0.06	U
SB-08905	5 - 5	8/24/1994	0.05	
SB-08905	7.5 - 7.5	8/24/1994	0.05	U
SB-08905	10 - 10	8/24/1994	0.05	U
SB-08917	1 - 1	8/23/1994	0.04	U
SB-08917	7.5 - 7.5	8/23/1994	0.06	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Mercury (mg/kg) - 2004 Soil Screening Level = 0.07 mg/kg; PMCL = 0.07 mg/kg[3]				
SB-08917	10 - 10	8/23/1994	0.06	U
SB-08920	1 - 1	8/23/1994	0.04	U
SB-08920	7.5 - 7.5	8/23/1994	0.06	U
SB-08920	10 - 10	8/23/1994	0.06	U
SB-08909	5 - 5	8/19/1994	0.06	U
SB-08909	7.5 - 7.5	8/19/1994	0.06	U
SB-08909	10 - 10	8/19/1994	0.06	U
SB-08922	1 - 1	8/19/1994	0.05	U
SB-08922	5 - 5	8/19/1994	0.04	U
SB-08922	10 - 10	8/19/1994	0.06	U
SB-08003	1.5 - 1.5	8/18/1994	0.06	U
SB-08003	8 - 8	8/18/1994	0.06	U
SB-08003	10 - 10	8/18/1994	0.06	J
SB-08004	3.5 - 3.5	8/18/1994	0.05	U
SB-08004	8 - 8	8/18/1994	0.05	U
SB-08004	12 - 12	8/18/1994	0.05	U
SB-08705	2.5 - 2.5	8/18/1994	0.05	U
SB-08705	5 - 5	8/18/1994	0.06	
SB-08705	7.5 - 7.5	8/18/1994	0.05	
SB-08919	2.5 - 2.5	8/18/1994	0.05	U
SB-08919	7.5 - 7.5	8/18/1994	0.06	U
SB-08919	10 - 10	8/18/1994	0.06	U
SB-08924	2.5 - 2.5	8/18/1994	0.04	U
SB-08924	2.5 - 2.5	8/18/1994	0.05	U
SB-08924	7.5 - 7.5	8/18/1994	0.06	U
SB-08924	10 - 10	8/18/1994	0.06	U
SB-08915	2 - 2	8/17/1994	0.05	U
SB-08915	5 - 5	8/17/1994	0.08	
SB-08915	7.5 - 7.5	8/17/1994	0.07	U
SB-09102	1 - 1	8/16/1994	0.05	U
SB-09102	1 - 1	8/16/1994	0.05	U
SB-09102	5 - 5	8/16/1994	0.06	U
SB-09102	7.5 - 7.5	8/16/1994	0.06	U
SB-09103	2.5 - 2.5	8/16/1994	0.05	U
SB-09103	7.5 - 7.5	8/16/1994	0.07	
SB-09103	10 - 10	8/16/1994	0.06	U
SB-09104	1 - 1	8/16/1994	0.05	U
SB-09104	7.5 - 7.5	8/16/1994	0.07	U
SB-09104	10 - 10	8/16/1994	0.06	U
SB-10401	10 - 10	3/15/1994	0.05	U
SB-08201	6.5 - 6.5	12/21/1993	0.05	U
SB-08201	8 - 8	12/21/1993	0.05	U
SB-08201	11 - 11	12/21/1993	0.06	U
SB-08601	1.5 - 1.5	12/20/1993	0.05	U
SB-08601	7 - 7	12/20/1993	0.11	
SB-08601	11 - 11	12/20/1993	0.06	U
SB-08303	5 - 5	12/13/1993	0.09	
SB-08903	5 - 5	12/13/1993	0.06	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Mercury (mg/kg) - 2004 Soil Screening Level = 0.07 mg/kg; PMCL = 0.07 mg/kg[3]				
SB-08903	5 - 5	12/13/1993	0.06	U
SB-08901	5 - 5	12/11/1993	0.06	U
SB-08901	7.5 - 7.5	12/11/1993	0.06	U
PL2-111A	1 - 1	12/9/1993	0.05	U
PL2-111A	5 - 5	12/9/1993	0.06	U
SB-08602	1 - 1	12/9/1993	0.05	U
SB-08602	5 - 5	12/9/1993	0.06	U
SB-08904	1 - 1	12/9/1993	0.05	U
SB-08904	5 - 5	12/9/1993	0.06	U
SB-28201	1 - 1	12/9/1993	0.04	U
SB-28201	5 - 5	12/9/1993	0.06	U
SS-09101	0 - 0.5	11/29/1993	0.1	
SS-09112	0 - 0.5	11/29/1993	0.05	U
SS-09103	0 - 0.5	11/24/1993	0.05	U
SS-09111	0 - 0.5	11/23/1993	0.05	U
SS-09111	0 - 0.5	11/23/1993	0.05	U
SS-09104	0 - 0.5	11/22/1993	1.72	
SS-09102	0 - 0.5	11/19/1993	0.04	U
SS-09109	0 - 0.5	11/19/1993	0.04	U
SS-09106	0 - 0.5	11/18/1993	0.05	U
SS-09108	0 - 0.5	11/17/1993	0.07	
SS-09110	0 - 0.5	11/17/1993	0.04	U
SS-09105	0 - 0.5	11/16/1993	0.16	
SS-09107	0 - 0.5	11/16/1993	0.07	
PL2-301A	5 - 5	7/8/1992	0.1	
PL2-301A	10 - 10	7/8/1992	0.05	U
PL2-302A	5 - 5	7/8/1992	0.1	U
PL2-302A	10 - 10	7/8/1992	0.1	U
PL2-303A	5 - 5	7/8/1992	0.1	
PL2-303A	10 - 10	7/8/1992	0.1	U
PL2-303A	10 - 10	7/8/1992	0.1	U
PL2-109B	9 - 9	7/7/1992	0.1	U
PL2-109C	6 - 6	7/6/1992	0.1	U
PL2-109C	9 - 9	7/6/1992	0.05	U
PL2-105C	3 - 3	6/25/1992	0.1	U
PL2-105C	10 - 10	6/25/1992	0.1	U
PL2-104B	6 - 6	6/24/1992	0.1	U
PL2-104B	11 - 11	6/24/1992	0.1	U
PL2-110C	6 - 6	6/22/1992	0.05	U
PL2-110C	9 - 9	6/22/1992	0.1	U
PL2-106C	7 - 7	6/18/1992	0.1	U
PL2-106C	12 - 12	6/18/1992	0.1	U
288-16	4 - 4	8/14/1991	0.04	U
288-17	4 - 4	8/14/1991	0.05	U
288-18	4 - 4	8/14/1991	0.04	U
288-19	4 - 4	8/14/1991	0.11	
288-20	4 - 4	8/14/1991	0.11	
288-21	4 - 4	8/14/1991	0.04	U

South Yard Area COC Results
Mercury Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Mercury (mg/kg) - 2004 Soil Screening Level = 0.07 mg/kg; PMCL = 0.07 mg/kg[3]				
288-22	4 - 4	8/14/1991	0.05	U
288-23	4 - 4	8/14/1991	0.05	U
288-24	4 - 4	8/14/1991	0.04	U
288-13	2 - 2	8/13/1991	0.05	U
288-15	2 - 2	8/13/1991	0.04	U
CN4-N-B	11 - 11	9/16/1986	0.1	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Nickel Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Nickel (mg/kg) - 2004 Soil Screening Level = 47.8 mg/kg; PMCL = 38.2 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	14	
DP-SY-01	4 - 5	3/8/2005	16	
DP-SY-01	9 - 10	3/8/2005	13	
DP-SY-02	0 - 1	3/7/2005	19.7	
DP-SY-02	4 - 5	3/7/2005	8	
DP-SY-02	9 - 10	3/7/2005	17	
DP-SY-03	0 - 1	3/7/2005	11	
DP-SY-03	4 - 5	3/7/2005	6	
DP-SY-03	9 - 10	3/7/2005	13	
DP-SY-04	0 - 1	3/7/2005	13	
DP-SY-04	4 - 5	3/7/2005	13	
DP-SY-04	9 - 10	3/7/2005	8	
DP-SY-05	0 - 1	3/7/2005	8.7	
DP-SY-05	4 - 5	3/7/2005	10	
DP-SY-05	9 - 10	3/7/2005	9	
DP-SY-06	0 - 1	3/7/2005	12	
DP-SY-06	4 - 5	3/7/2005	7	
DP-SY-06	9 - 10	3/7/2005	12	
DP-SY-07	0 - 1	3/7/2005	7	
DP-SY-07	4 - 5	3/7/2005	8	
DP-SY-07	9 - 10	3/7/2005	9	
DP-SY-08	0 - 1	3/7/2005	12	
DP-SY-08	4 - 5	3/7/2005	15	
DP-SY-08	9 - 10	3/7/2005	12	
DP-SY-09	0 - 1	3/8/2005	6	
DP-SY-09	4 - 5	3/8/2005	9	
DP-SY-09	9 - 10	3/8/2005	7	
DP-SY-10	0 - 1	3/8/2005	12.3	
DP-SY-10	4 - 5	3/8/2005	7	
DP-SY-10	9 - 10	3/8/2005	11	
DP-SY-11	0 - 1	3/8/2005	8.3	
DP-SY-11	4 - 5	3/8/2005	8.2	
DP-SY-11	9 - 10	3/8/2005	11	
DP-SY-12	0 - 1	3/8/2005	8.6	
DP-SY-12	4 - 5	3/8/2005	9.5	
DP-SY-12	9 - 10	3/8/2005	8	
PL2-601A	0 - 1.5	3/1/2005	10	
PL2-601A	3.5 - 5	3/1/2005	7	
PL2-601A	8.5 - 10	3/1/2005	9	
PL2-602A	0 - 1.5	3/1/2005	8.6	
PL2-602A	3.5 - 5	3/1/2005	8	
PL2-602A	8.5 - 10	3/1/2005	10	
PL2-603A	0 - 1.5	2/28/2005	17	J
PL2-603A	3.5 - 5	2/28/2005	23	J
PL2-603A	8.5 - 10	2/28/2005	30	J
SB-08334	4 - 5	4/23/2002	40	
SB-08334	7.5 - 8.5	4/23/2002	34	
SB-08335	4 - 5	4/23/2002	31	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Nickel (mg/kg) - 2004 Soil Screening Level = 47.8 mg/kg; PMCL = 38.2 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	12	
SB-08332	4 - 5	4/15/2002	7	
SB-08332	4 - 5	4/15/2002	6	
SB-08332	9 - 10	4/15/2002	11	
SB-08333	4 - 5	4/15/2002	35	
SB-08333	9 - 10	4/15/2002	13	
SB-08716	3 - 5	11/25/1998	10	
SB-08716	8 - 10	11/25/1998	14	
SB-08717	3 - 5	11/25/1998	12	
SB-08717	8 - 10	11/25/1998	11	
SB-08718	3 - 5	11/25/1998	8	
SB-08718	8 - 10	11/25/1998	10	
SB-08719	3 - 5	11/25/1998	8	
SB-08719	8 - 10	11/25/1998	9	
SB-08720	3 - 5	11/25/1998	8	
SB-08720	8 - 10	11/25/1998	9	
SB-08721	3 - 5	11/25/1998	8	
SB-08721	8 - 10	11/25/1998	11	
SB-08722	3 - 5	11/25/1998	10	
SB-08722	8 - 10	11/25/1998	12	
SB-08723	3 - 5	11/25/1998	9	
SB-08723	8 - 10	11/25/1998	10	
SB-08724	3 - 5	11/25/1998	18	
SB-08724	8 - 10	11/25/1998	18	
SB-08930	3 - 5	11/24/1998	8	
SB-08930	8 - 10	11/24/1998	8	
SB-08931	3 - 5	11/24/1998	9	
SB-08931	8 - 10	11/24/1998	8	
SB-08932	3 - 5	11/24/1998	13	
SB-08932	8 - 10	11/24/1998	9	
SB-08933	3 - 5	11/24/1998	8	
SB-08933	8 - 10	11/24/1998	10	
SB-08934	3 - 5	11/24/1998	10	
SB-08934	8 - 10	11/24/1998	9	
SB-08935	3 - 5	11/24/1998	8	
SB-08935	8 - 10	11/24/1998	10	
SB-08936	3 - 5	11/24/1998	9	
SB-08936	8 - 10	11/24/1998	10	
SB-08937	3 - 5	11/24/1998	8	
SB-08937	8 - 10	11/24/1998	18	
SB-08938	3 - 5	11/24/1998	11	
SB-08938	8 - 10	11/24/1998	9	
SB-08939	3 - 5	11/24/1998	9	
SB-08939	8 - 10	11/24/1998	13	
SB-08940	3 - 5	11/24/1998	8	
SB-08940	8 - 10	11/24/1998	9	
SB-08022	10 - 11	3/19/1998	13	
SB-08020	10 - 11	3/18/1998	21	

South Yard Area COC Results
Nickel Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Nickel (mg/kg) - 2004 Soil Screening Level = 47.8 mg/kg; PMCL = 38.2 mg/kg[3]				
SB-08021	9 - 10	3/18/1998	16	
SB-08927	2 - 2	3/6/1995	7	
SB-08927	6.5 - 6.5	3/6/1995	14	
SB-08927	9.5 - 9.5	3/6/1995	10	
SB-08929	2 - 2	3/6/1995	8	
SB-08929	6.5 - 6.5	3/6/1995	16	
SB-08929	9.5 - 9.5	3/6/1995	11	
SB-08928	2.5 - 2.5	3/3/1995	7	
SB-08928	4.5 - 4.5	3/3/1995	10	
SB-08928	8.5 - 8.5	3/3/1995	12	
SB-08926	2.5 - 2.5	3/2/1995	8	
SB-08926	5.5 - 5.5	3/2/1995	14	
SB-08926	8.5 - 8.5	3/2/1995	9	
SB-08305	1 - 1	2/22/1995	10	
SB-08305	5 - 5	2/22/1995	12	
SB-08009	0.6 - 0.6	2/16/1995	8	J+
SB-08009	6 - 6	2/16/1995	10	J+
SB-08010	0.5 - 0.5	2/16/1995	10	J+
SB-08010	6 - 6	2/16/1995	16	J+
SB-08008	3.5 - 3.5	2/15/1995	12	J+
SB-08008	6.5 - 6.5	2/15/1995	9	J+
SB-08008	11.5 - 11.5	2/15/1995	12	J+
SB-08604	1.5 - 1.5	9/19/1994	7	
SB-08604	6 - 6	9/19/1994	9	
SB-08604	9 - 9	9/19/1994	17	
SB-10403	10.5 - 10.5	9/7/1994	9	
SB-10404	1.5 - 1.5	9/7/1994	7	
SB-10404	6.5 - 6.5	9/7/1994	9	
SB-10404	10.5 - 10.5	9/7/1994	8	
SB-10405	10.5 - 10.5	9/7/1994	15	
SB-08301	1.5 - 1.5	9/3/1994	9	
SB-08301	4.5 - 4.5	9/3/1994	21	
SB-08301	11.5 - 11.5	9/3/1994	11	
SB-08302	2 - 2	9/3/1994	10	
SB-08302	5 - 5	9/3/1994	14	
SB-08302	11 - 11	9/3/1994	7	
SB-08706	7.5 - 7.5	8/25/1994	10	
SB-08706	10 - 10	8/25/1994	9	
SB-08905	5 - 5	8/24/1994	18	
SB-08905	7.5 - 7.5	8/24/1994	8	
SB-08905	10 - 10	8/24/1994	9	
SB-08917	1 - 1	8/23/1994	11	
SB-08917	7.5 - 7.5	8/23/1994	16	
SB-08917	10 - 10	8/23/1994	17	
SB-08920	1 - 1	8/23/1994	10	
SB-08920	7.5 - 7.5	8/23/1994	13	
SB-08920	10 - 10	8/23/1994	9	
SB-08909	5 - 5	8/19/1994	21	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Nickel (mg/kg) - 2004 Soil Screening Level = 47.8 mg/kg; PMCL = 38.2 mg/kg[3]				
SB-08909	7.5 - 7.5	8/19/1994	11	
SB-08909	10 - 10	8/19/1994	10	
SB-08922	1 - 1	8/19/1994	9	
SB-08922	5 - 5	8/19/1994	12	
SB-08922	10 - 10	8/19/1994	10	
SB-08003	1.5 - 1.5	8/18/1994	12	
SB-08003	8 - 8	8/18/1994	18	
SB-08003	10 - 10	8/18/1994	19	
SB-08004	3.5 - 3.5	8/18/1994	11	
SB-08004	8 - 8	8/18/1994	13	
SB-08004	12 - 12	8/18/1994	15	
SB-08705	2.5 - 2.5	8/18/1994	8	
SB-08705	5 - 5	8/18/1994	15	
SB-08705	7.5 - 7.5	8/18/1994	15	
SB-08919	2.5 - 2.5	8/18/1994	10	
SB-08919	7.5 - 7.5	8/18/1994	18	
SB-08919	10 - 10	8/18/1994	9	
SB-08924	2.5 - 2.5	8/18/1994	13	
SB-08924	2.5 - 2.5	8/18/1994	14	
SB-08924	7.5 - 7.5	8/18/1994	19	
SB-08924	10 - 10	8/18/1994	12	
SB-08915	2 - 2	8/17/1994	18	
SB-08915	5 - 5	8/17/1994	13	
SB-08915	7.5 - 7.5	8/17/1994	19	
SB-09102	1 - 1	8/16/1994	9	
SB-09102	1 - 1	8/16/1994	9	
SB-09102	5 - 5	8/16/1994	11	
SB-09102	7.5 - 7.5	8/16/1994	19	
SB-09103	2.5 - 2.5	8/16/1994	8	
SB-09103	7.5 - 7.5	8/16/1994	20	
SB-09103	10 - 10	8/16/1994	11	
SB-09104	1 - 1	8/16/1994	17	
SB-09104	7.5 - 7.5	8/16/1994	20	
SB-09104	10 - 10	8/16/1994	16	
SB-10401	10 - 10	3/15/1994	9	
SB-08201	6.5 - 6.5	12/21/1993	14	
SB-08201	8 - 8	12/21/1993	20	
SB-08201	11 - 11	12/21/1993	15	
SB-08601	1.5 - 1.5	12/20/1993	7	
SB-08601	7 - 7	12/20/1993	18	
SB-08601	11 - 11	12/20/1993	10	
SB-08303	5 - 5	12/13/1993	17	
SB-08903	5 - 5	12/13/1993	11	
SB-08903	5 - 5	12/13/1993	10	
SB-08901	5 - 5	12/11/1993	16	
SB-08901	7.5 - 7.5	12/11/1993	13	
PL2-111A	1 - 1	12/9/1993	9	
PL2-111A	5 - 5	12/9/1993	14	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Nickel (mg/kg) - 2004 Soil Screening Level = 47.8 mg/kg; PMCL = 38.2 mg/kg[3]				
SB-08602	1 - 1	12/9/1993	10	
SB-08602	5 - 5	12/9/1993	13	
SB-08904	1 - 1	12/9/1993	7	
SB-08904	5 - 5	12/9/1993	11	
SB-28201	1 - 1	12/9/1993	9	
SB-28201	5 - 5	12/9/1993	11	
SS-09101	0 - 0.5	11/29/1993	37	
SS-09112	0 - 0.5	11/29/1993	12	
SS-09103	0 - 0.5	11/24/1993	15	
SS-09111	0 - 0.5	11/23/1993	31	J
SS-09111	0 - 0.5	11/23/1993	31	J
SS-09104	0 - 0.5	11/22/1993	28	
SS-09102	0 - 0.5	11/19/1993	27	
SS-09109	0 - 0.5	11/19/1993	15	
SS-09106	0 - 0.5	11/18/1993	13	
SS-09108	0 - 0.5	11/17/1993	32	
SS-09110	0 - 0.5	11/17/1993	20	
SS-09105	0 - 0.5	11/16/1993	14	
SS-09107	0 - 0.5	11/16/1993	29	
PL2-301A	5 - 5	7/8/1992	18	
PL2-301A	10 - 10	7/8/1992	8	
PL2-302A	5 - 5	7/8/1992	10	
PL2-302A	10 - 10	7/8/1992	11	
PL2-303A	5 - 5	7/8/1992	13	
PL2-303A	10 - 10	7/8/1992	10	
PL2-303A	10 - 10	7/8/1992	9	
288-16	4 - 4	8/14/1991	7	
288-17	4 - 4	8/14/1991	11	
288-18	4 - 4	8/14/1991	8	
288-19	4 - 4	8/14/1991	29	
288-20	4 - 4	8/14/1991	33	
288-21	4 - 4	8/14/1991	7	
288-22	4 - 4	8/14/1991	8	
288-23	4 - 4	8/14/1991	9	
288-24	4 - 4	8/14/1991	8	
288-13	2 - 2	8/13/1991	10	
288-15	2 - 2	8/13/1991	8	
CN4-N-B	11 - 11	9/16/1986	610	
PL2-101A	11 - 11	10/28/1985	7	
PL2-103A	4 - 4	10/28/1985	11	
PL2-103A	7 - 7	10/28/1985	10	
PL2-103A	10 - 10	10/28/1985	6	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Selenium Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Selenium (mg/kg) - 2004 Soil Screening Level = 7.38 mg/kg; PMCL = 7.3 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	5	U
DP-SY-01	4 - 5	3/8/2005	7	U
DP-SY-01	9 - 10	3/8/2005	6	U
DP-SY-02	0 - 1	3/7/2005	5	U
DP-SY-02	4 - 5	3/7/2005	6	U
DP-SY-02	9 - 10	3/7/2005	7	U
DP-SY-03	0 - 1	3/7/2005	5	U
DP-SY-03	4 - 5	3/7/2005	6	U
DP-SY-03	9 - 10	3/7/2005	5	U
DP-SY-04	0 - 1	3/7/2005	5	U
DP-SY-04	4 - 5	3/7/2005	5	U
DP-SY-04	9 - 10	3/7/2005	6	U
DP-SY-05	0 - 1	3/7/2005	5	U
DP-SY-05	4 - 5	3/7/2005	7	U
DP-SY-05	9 - 10	3/7/2005	6	U
DP-SY-06	0 - 1	3/7/2005	5	U
DP-SY-06	4 - 5	3/7/2005	6	U
DP-SY-06	9 - 10	3/7/2005	6	U
DP-SY-07	0 - 1	3/7/2005	5	U
DP-SY-07	4 - 5	3/7/2005	5	U
DP-SY-07	9 - 10	3/7/2005	6	U
DP-SY-08	0 - 1	3/7/2005	6	U
DP-SY-08	4 - 5	3/7/2005	7	U
DP-SY-08	9 - 10	3/7/2005	7	U
DP-SY-09	0 - 1	3/8/2005	6	U
DP-SY-09	4 - 5	3/8/2005	6	U
DP-SY-09	9 - 10	3/8/2005	6	U
DP-SY-10	0 - 1	3/8/2005	5	U
DP-SY-10	4 - 5	3/8/2005	5	U
DP-SY-10	9 - 10	3/8/2005	6	U
DP-SY-11	0 - 1	3/8/2005	5	U
DP-SY-11	4 - 5	3/8/2005	5	U
DP-SY-11	9 - 10	3/8/2005	6	U
DP-SY-12	0 - 1	3/8/2005	5	U
DP-SY-12	4 - 5	3/8/2005	5	U
DP-SY-12	9 - 10	3/8/2005	5	U
PL2-601A	0 - 1.5	3/1/2005	5	U
PL2-601A	3.5 - 5	3/1/2005	5	U
PL2-601A	8.5 - 10	3/1/2005	6	U
PL2-602A	0 - 1.5	3/1/2005	5	U
PL2-602A	3.5 - 5	3/1/2005	5	U
PL2-602A	8.5 - 10	3/1/2005	6	U
PL2-603A	0 - 1.5	2/28/2005	5	U
PL2-603A	3.5 - 5	2/28/2005	5	U
PL2-603A	8.5 - 10	2/28/2005	5	U
SB-08334	4 - 5	4/23/2002	5	U
SB-08334	7.5 - 8.5	4/23/2002	5	U
SB-08335	4 - 5	4/23/2002	5	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Selenium (mg/kg) - 2004 Soil Screening Level = 7.38 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	6	U
SB-08332	4 - 5	4/15/2002	5	U
SB-08332	4 - 5	4/15/2002	5	U
SB-08332	9 - 10	4/15/2002	7	U
SB-08333	4 - 5	4/15/2002	8	
SB-08333	9 - 10	4/15/2002	7	U
SB-08716	3 - 5	11/25/1998	6	U
SB-08716	8 - 10	11/25/1998	7	U
SB-08717	3 - 5	11/25/1998	6	U
SB-08717	8 - 10	11/25/1998	7	U
SB-08718	3 - 5	11/25/1998	7	U
SB-08718	8 - 10	11/25/1998	6	U
SB-08719	3 - 5	11/25/1998	6	U
SB-08719	8 - 10	11/25/1998	6	U
SB-08720	3 - 5	11/25/1998	6	U
SB-08720	8 - 10	11/25/1998	7	U
SB-08721	3 - 5	11/25/1998	6	U
SB-08721	8 - 10	11/25/1998	7	U
SB-08722	3 - 5	11/25/1998	6	U
SB-08722	8 - 10	11/25/1998	7	U
SB-08723	3 - 5	11/25/1998	6	U
SB-08723	8 - 10	11/25/1998	7	U
SB-08724	3 - 5	11/25/1998	5	U
SB-08724	8 - 10	11/25/1998	7	U
SB-08930	3 - 5	11/24/1998	0.1	U
SB-08930	8 - 10	11/24/1998	0.1	U
SB-08931	3 - 5	11/24/1998	0.1	U
SB-08931	8 - 10	11/24/1998	0.1	U
SB-08932	3 - 5	11/24/1998	0.1	U
SB-08932	8 - 10	11/24/1998	0.1	U
SB-08933	3 - 5	11/24/1998	0.1	U
SB-08933	8 - 10	11/24/1998	0.1	U
SB-08934	3 - 5	11/24/1998	0.1	U
SB-08934	8 - 10	11/24/1998	0.1	U
SB-08935	3 - 5	11/24/1998	0.1	U
SB-08935	8 - 10	11/24/1998	0.1	U
SB-08936	3 - 5	11/24/1998	0.1	U
SB-08936	8 - 10	11/24/1998	0.1	U
SB-08937	3 - 5	11/24/1998	0.1	U
SB-08937	8 - 10	11/24/1998	0.1	U
SB-08938	3 - 5	11/24/1998	0.1	U
SB-08938	8 - 10	11/24/1998	0.1	U
SB-08939	3 - 5	11/24/1998	0.1	U
SB-08939	8 - 10	11/24/1998	0.1	U
SB-08940	3 - 5	11/24/1998	0.1	U
SB-08940	8 - 10	11/24/1998	0.1	U
SB-08022	10 - 11	3/19/1998	7	U
SB-08020	10 - 11	3/18/1998	9	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Selenium (mg/kg) - 2004 Soil Screening Level = 7.38 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08021	9 - 10	3/18/1998	6	U
SB-08927	2 - 2	3/6/1995	5	U
SB-08927	6.5 - 6.5	3/6/1995	6	U
SB-08927	9.5 - 9.5	3/6/1995	7	U
SB-08929	2 - 2	3/6/1995	5	U
SB-08929	6.5 - 6.5	3/6/1995	6	U
SB-08929	9.5 - 9.5	3/6/1995	6	U
SB-08928	2.5 - 2.5	3/3/1995	5	U
SB-08928	4.5 - 4.5	3/3/1995	6	U
SB-08928	8.5 - 8.5	3/3/1995	6	U
SB-08926	2.5 - 2.5	3/2/1995	6	U
SB-08926	5.5 - 5.5	3/2/1995	6	U
SB-08926	8.5 - 8.5	3/2/1995	6	U
SB-08305	1 - 1	2/22/1995	5	U
SB-08305	5 - 5	2/22/1995	6	U
SB-08009	0.6 - 0.6	2/16/1995	5	U
SB-08009	6 - 6	2/16/1995	6	U
SB-08010	0.5 - 0.5	2/16/1995	5	U
SB-08010	6 - 6	2/16/1995	6	U
SB-08008	3.5 - 3.5	2/15/1995	5	U
SB-08008	6.5 - 6.5	2/15/1995	5	U
SB-08008	11.5 - 11.5	2/15/1995	8	
SB-08604	1.5 - 1.5	9/19/1994	6	U
SB-08604	6 - 6	9/19/1994	7	U
SB-08604	9 - 9	9/19/1994	7	U
SB-10403	10.5 - 10.5	9/7/1994	6	U
SB-10404	1.5 - 1.5	9/7/1994	5	U
SB-10404	6.5 - 6.5	9/7/1994	7	U
SB-10404	10.5 - 10.5	9/7/1994	7	U
SB-10405	10.5 - 10.5	9/7/1994	7	U
SB-08301	1.5 - 1.5	9/3/1994	6	U
SB-08301	4.5 - 4.5	9/3/1994	7	U
SB-08301	11.5 - 11.5	9/3/1994	6	U
SB-08302	2 - 2	9/3/1994	5	U
SB-08302	5 - 5	9/3/1994	6	U
SB-08302	11 - 11	9/3/1994	6	U
SB-08706	7.5 - 7.5	8/25/1994	6	U
SB-08706	10 - 10	8/25/1994	6	U
SB-08905	5 - 5	8/24/1994	6	U
SB-08905	7.5 - 7.5	8/24/1994	6	U
SB-08905	10 - 10	8/24/1994	6	U
SB-08917	1 - 1	8/23/1994	5	U
SB-08917	7.5 - 7.5	8/23/1994	7	U
SB-08917	10 - 10	8/23/1994	6	U
SB-08920	1 - 1	8/23/1994	5	U
SB-08920	7.5 - 7.5	8/23/1994	6	U
SB-08920	10 - 10	8/23/1994	6	U
SB-08909	5 - 5	8/19/1994	5	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Selenium (mg/kg) - 2004 Soil Screening Level = 7.38 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08909	7.5 - 7.5	8/19/1994	5	U
SB-08909	10 - 10	8/19/1994	5	U
SB-08922	1 - 1	8/19/1994	5	U
SB-08922	5 - 5	8/19/1994	6	U
SB-08922	10 - 10	8/19/1994	6	U
SB-08003	1.5 - 1.5	8/18/1994	6	U
SB-08003	8 - 8	8/18/1994	6	U
SB-08003	10 - 10	8/18/1994	8	
SB-08004	3.5 - 3.5	8/18/1994	5	U
SB-08004	8 - 8	8/18/1994	5	U
SB-08004	12 - 12	8/18/1994	6	U
SB-08705	2.5 - 2.5	8/18/1994	5	U
SB-08705	5 - 5	8/18/1994	6	U
SB-08705	7.5 - 7.5	8/18/1994	7	U
SB-08919	2.5 - 2.5	8/18/1994	5	U
SB-08919	7.5 - 7.5	8/18/1994	7	U
SB-08919	10 - 10	8/18/1994	6	U
SB-08924	2.5 - 2.5	8/18/1994	5	U
SB-08924	2.5 - 2.5	8/18/1994	5	U
SB-08924	7.5 - 7.5	8/18/1994	7	U
SB-08924	10 - 10	8/18/1994	6	U
SB-08915	2 - 2	8/17/1994	5	U
SB-08915	5 - 5	8/17/1994	5	U
SB-08915	7.5 - 7.5	8/17/1994	7	
SB-09102	1 - 1	8/16/1994	5	U
SB-09102	1 - 1	8/16/1994	5	U
SB-09102	5 - 5	8/16/1994	6	U
SB-09102	7.5 - 7.5	8/16/1994	6	U
SB-09103	2.5 - 2.5	8/16/1994	5	U
SB-09103	7.5 - 7.5	8/16/1994	7	
SB-09103	10 - 10	8/16/1994	6	U
SB-09104	1 - 1	8/16/1994	5	U
SB-09104	7.5 - 7.5	8/16/1994	7	U
SB-09104	10 - 10	8/16/1994	6	U
SB-10401	10 - 10	3/15/1994	6	U
SB-08201	6.5 - 6.5	12/21/1993	5	U
SB-08201	8 - 8	12/21/1993	6	U
SB-08201	11 - 11	12/21/1993	7	U
SB-08601	1.5 - 1.5	12/20/1993	5	U
SB-08601	7 - 7	12/20/1993	7	U
SB-08601	11 - 11	12/20/1993	6	U
SB-08303	5 - 5	12/13/1993	7	U
SB-08903	5 - 5	12/13/1993	5	U
SB-08903	5 - 5	12/13/1993	6	U
SB-08901	5 - 5	12/11/1993	7	U
SB-08901	7.5 - 7.5	12/11/1993	6	U
PL2-111A	1 - 1	12/9/1993	5	U
PL2-111A	5 - 5	12/9/1993	6	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Selenium (mg/kg) - 2004 Soil Screening Level = 7.38 mg/kg; PMCL = 7.3 mg/kg[3]				
SB-08602	1 - 1	12/9/1993	5	U
SB-08602	5 - 5	12/9/1993	6	U
SB-08904	1 - 1	12/9/1993	5	U
SB-08904	5 - 5	12/9/1993	6	U
SB-28201	1 - 1	12/9/1993	5	U
SB-28201	5 - 5	12/9/1993	6	U
SS-09101	0 - 0.5	11/29/1993	6	U
SS-09112	0 - 0.5	11/29/1993	6	U
SS-09103	0 - 0.5	11/24/1993	5	U
SS-09111	0 - 0.5	11/23/1993	5	U
SS-09111	0 - 0.5	11/23/1993	5	U
SS-09104	0 - 0.5	11/22/1993	5	U
SS-09102	0 - 0.5	11/19/1993	4	U
SS-09109	0 - 0.5	11/19/1993	4	U
SS-09106	0 - 0.5	11/18/1993	5	U
SS-09108	0 - 0.5	11/17/1993	5	U
SS-09110	0 - 0.5	11/17/1993	6	U
SS-09105	0 - 0.5	11/16/1993	5	U
SS-09107	0 - 0.5	11/16/1993	5	U
PL2-301A	5 - 5	7/8/1992	6	U
PL2-301A	10 - 10	7/8/1992	6	U
PL2-302A	5 - 5	7/8/1992	6	U
PL2-302A	10 - 10	7/8/1992	6	U
PL2-303A	5 - 5	7/8/1992	6	U
PL2-303A	10 - 10	7/8/1992	6	U
PL2-303A	10 - 10	7/8/1992	6	U
PL2-109B	9 - 9	7/7/1992	0.1	U
PL2-109C	6 - 6	7/6/1992	0.3	
PL2-109C	9 - 9	7/6/1992	0.3	
PL2-105C	3 - 3	6/25/1992	0.1	U
PL2-105C	10 - 10	6/25/1992	0.2	
PL2-104B	6 - 6	6/24/1992	0.2	
PL2-104B	11 - 11	6/24/1992	0.1	U
PL2-110C	6 - 6	6/22/1992	0.1	
PL2-110C	9 - 9	6/22/1992	0.3	
PL2-106C	7 - 7	6/18/1992	0.1	U
PL2-106C	12 - 12	6/18/1992	0.1	U
288-16	4 - 4	8/14/1991	7	
288-17	4 - 4	8/14/1991	5	
288-18	4 - 4	8/14/1991	5	U
288-19	4 - 4	8/14/1991	9	
288-20	4 - 4	8/14/1991	6	
288-21	4 - 4	8/14/1991	4	U
288-22	4 - 4	8/14/1991	6	
288-23	4 - 4	8/14/1991	5	U
288-24	4 - 4	8/14/1991	5	
288-13	2 - 2	8/13/1991	4	U
288-15	2 - 2	8/13/1991	5	U

South Yard Area COC Results
Selenium Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Selenium (mg/kg) - 2004 Soil Screening Level = 7.38 mg/kg; PMCL = 7.3 mg/kg[3]				

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Silver (mg/kg) - 2004 Soil Screening Level = 0.32 mg/kg; PMCL = 0.3 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	0.3	U
DP-SY-01	4 - 5	3/8/2005	0.4	U
DP-SY-01	9 - 10	3/8/2005	0.4	U
DP-SY-02	0 - 1	3/7/2005	0.3	U
DP-SY-02	4 - 5	3/7/2005	0.3	U
DP-SY-02	9 - 10	3/7/2005	0.4	U
DP-SY-03	0 - 1	3/7/2005	0.3	U
DP-SY-03	4 - 5	3/7/2005	0.3	U
DP-SY-03	9 - 10	3/7/2005	0.3	U
DP-SY-04	0 - 1	3/7/2005	0.3	U
DP-SY-04	4 - 5	3/7/2005	0.3	U
DP-SY-04	9 - 10	3/7/2005	0.4	U
DP-SY-05	0 - 1	3/7/2005	0.3	U
DP-SY-05	4 - 5	3/7/2005	0.4	U
DP-SY-05	9 - 10	3/7/2005	0.4	U
DP-SY-06	0 - 1	3/7/2005	7.1	
DP-SY-06	4 - 5	3/7/2005	0.4	U
DP-SY-06	9 - 10	3/7/2005	0.4	U
DP-SY-07	0 - 1	3/7/2005	0.3	U
DP-SY-07	4 - 5	3/7/2005	0.3	U
DP-SY-07	9 - 10	3/7/2005	0.4	U
DP-SY-08	0 - 1	3/7/2005	2.1	
DP-SY-08	4 - 5	3/7/2005	0.4	U
DP-SY-08	9 - 10	3/7/2005	0.4	U
DP-SY-09	0 - 1	3/8/2005	0.3	U
DP-SY-09	4 - 5	3/8/2005	0.4	U
DP-SY-09	9 - 10	3/8/2005	0.3	U
DP-SY-10	0 - 1	3/8/2005	0.3	U
DP-SY-10	4 - 5	3/8/2005	0.3	U
DP-SY-10	9 - 10	3/8/2005	0.4	U
DP-SY-11	0 - 1	3/8/2005	0.3	U
DP-SY-11	4 - 5	3/8/2005	0.3	U
DP-SY-11	9 - 10	3/8/2005	0.4	U
DP-SY-12	0 - 1	3/8/2005	0.3	U
DP-SY-12	4 - 5	3/8/2005	0.3	U
DP-SY-12	9 - 10	3/8/2005	0.3	U
PL2-601A	0 - 1.5	3/1/2005	0.3	U
PL2-601A	3.5 - 5	3/1/2005	0.3	U
PL2-601A	8.5 - 10	3/1/2005	0.4	U
PL2-602A	0 - 1.5	3/1/2005	0.3	U
PL2-602A	3.5 - 5	3/1/2005	0.3	U
PL2-602A	8.5 - 10	3/1/2005	0.4	U
PL2-603A	0 - 1.5	2/28/2005	0.3	U
PL2-603A	3.5 - 5	2/28/2005	0.3	U
PL2-603A	8.5 - 10	2/28/2005	0.3	U
SB-08334	4 - 5	4/23/2002	0.3	U
SB-08334	7.5 - 8.5	4/23/2002	0.3	U
SB-08335	4 - 5	4/23/2002	0.3	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Silver (mg/kg) - 2004 Soil Screening Level = 0.32 mg/kg; PMCL = 0.3 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	0.3	U
SB-08332	4 - 5	4/15/2002	0.3	U
SB-08332	4 - 5	4/15/2002	0.3	U
SB-08332	9 - 10	4/15/2002	0.4	U
SB-08333	4 - 5	4/15/2002	0.4	
SB-08333	9 - 10	4/15/2002	0.4	U
SB-08716	3 - 5	11/25/1998	0.4	U
SB-08716	8 - 10	11/25/1998	0.4	U
SB-08717	3 - 5	11/25/1998	0.3	U
SB-08717	8 - 10	11/25/1998	0.4	U
SB-08718	3 - 5	11/25/1998	0.4	U
SB-08718	8 - 10	11/25/1998	0.4	U
SB-08719	3 - 5	11/25/1998	0.4	U
SB-08719	8 - 10	11/25/1998	0.4	U
SB-08720	3 - 5	11/25/1998	0.4	U
SB-08720	8 - 10	11/25/1998	0.4	U
SB-08721	3 - 5	11/25/1998	0.4	U
SB-08721	8 - 10	11/25/1998	0.4	U
SB-08722	3 - 5	11/25/1998	0.4	U
SB-08722	8 - 10	11/25/1998	0.4	U
SB-08723	3 - 5	11/25/1998	0.4	U
SB-08723	8 - 10	11/25/1998	0.4	U
SB-08724	3 - 5	11/25/1998	0.3	U
SB-08724	8 - 10	11/25/1998	0.4	U
SB-08930	3 - 5	11/24/1998	0.3	U
SB-08930	8 - 10	11/24/1998	0.4	U
SB-08931	3 - 5	11/24/1998	0.4	U
SB-08931	8 - 10	11/24/1998	0.4	U
SB-08932	3 - 5	11/24/1998	0.4	U
SB-08932	8 - 10	11/24/1998	0.4	U
SB-08933	3 - 5	11/24/1998	0.3	U
SB-08933	8 - 10	11/24/1998	0.4	U
SB-08934	3 - 5	11/24/1998	0.3	U
SB-08934	8 - 10	11/24/1998	0.4	U
SB-08935	3 - 5	11/24/1998	0.4	U
SB-08935	8 - 10	11/24/1998	0.4	U
SB-08936	3 - 5	11/24/1998	0.4	U
SB-08936	8 - 10	11/24/1998	0.4	U
SB-08937	3 - 5	11/24/1998	0.3	U
SB-08937	8 - 10	11/24/1998	0.4	U
SB-08938	3 - 5	11/24/1998	0.3	U
SB-08938	8 - 10	11/24/1998	0.3	U
SB-08939	3 - 5	11/24/1998	0.3	U
SB-08939	8 - 10	11/24/1998	0.4	U
SB-08940	3 - 5	11/24/1998	0.3	U
SB-08940	8 - 10	11/24/1998	0.4	U
SB-08022	10 - 11	3/19/1998	0.4	U
SB-08020	10 - 11	3/18/1998	0.5	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Silver (mg/kg) - 2004 Soil Screening Level = 0.32 mg/kg; PMCL = 0.3 mg/kg[3]				
SB-08021	9 - 10	3/18/1998	0.4	U
SB-08927	2 - 2	3/6/1995	0.3	U
SB-08927	6.5 - 6.5	3/6/1995	0.4	U
SB-08927	9.5 - 9.5	3/6/1995	0.4	U
SB-08929	2 - 2	3/6/1995	0.3	U
SB-08929	6.5 - 6.5	3/6/1995	0.4	U
SB-08929	9.5 - 9.5	3/6/1995	0.4	U
SB-08928	2.5 - 2.5	3/3/1995	0.3	U
SB-08928	4.5 - 4.5	3/3/1995	0.4	U
SB-08928	8.5 - 8.5	3/3/1995	0.4	U
SB-08926	2.5 - 2.5	3/2/1995	0.3	U
SB-08926	5.5 - 5.5	3/2/1995	0.4	U
SB-08926	8.5 - 8.5	3/2/1995	0.4	U
SB-08305	1 - 1	2/22/1995	0.3	U
SB-08305	5 - 5	2/22/1995	0.3	U
SB-08009	0.6 - 0.6	2/16/1995	0.9	
SB-08009	6 - 6	2/16/1995	0.3	U
SB-08010	0.5 - 0.5	2/16/1995	0.3	U
SB-08010	6 - 6	2/16/1995	0.3	U
SB-08008	3.5 - 3.5	2/15/1995	0.3	U
SB-08008	6.5 - 6.5	2/15/1995	0.3	U
SB-08008	11.5 - 11.5	2/15/1995	0.4	U
SB-08604	1.5 - 1.5	9/19/1994	0.3	U
SB-08604	6 - 6	9/19/1994	0.4	U
SB-08604	9 - 9	9/19/1994	0.4	U
SB-10403	10.5 - 10.5	9/7/1994	0.4	U
SB-10404	1.5 - 1.5	9/7/1994	0.3	U
SB-10404	6.5 - 6.5	9/7/1994	0.4	U
SB-10404	10.5 - 10.5	9/7/1994	0.4	U
SB-10405	10.5 - 10.5	9/7/1994	0.4	U
SB-08301	1.5 - 1.5	9/3/1994	0.3	U
SB-08301	4.5 - 4.5	9/3/1994	0.4	U
SB-08301	11.5 - 11.5	9/3/1994	0.4	U
SB-08302	2 - 2	9/3/1994	0.3	U
SB-08302	5 - 5	9/3/1994	0.4	U
SB-08302	11 - 11	9/3/1994	0.4	U
SB-08706	7.5 - 7.5	8/25/1994	0.4	U
SB-08706	10 - 10	8/25/1994	0.4	U
SB-08905	5 - 5	8/24/1994	0.4	U
SB-08905	7.5 - 7.5	8/24/1994	0.3	U
SB-08905	10 - 10	8/24/1994	0.4	U
SB-08917	1 - 1	8/23/1994	0.3	U
SB-08917	7.5 - 7.5	8/23/1994	0.4	U
SB-08917	10 - 10	8/23/1994	0.4	U
SB-08920	1 - 1	8/23/1994	0.3	U
SB-08920	7.5 - 7.5	8/23/1994	0.4	U
SB-08920	10 - 10	8/23/1994	0.4	U
SB-08909	5 - 5	8/19/1994	0.3	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Silver (mg/kg) - 2004 Soil Screening Level = 0.32 mg/kg; PMCL = 0.3 mg/kg[3]				
SB-08909	7.5 - 7.5	8/19/1994	0.3	U
SB-08909	10 - 10	8/19/1994	0.3	U
SB-08922	1 - 1	8/19/1994	0.3	U
SB-08922	5 - 5	8/19/1994	0.4	
SB-08922	10 - 10	8/19/1994	0.4	U
SB-08003	1.5 - 1.5	8/18/1994	0.3	U
SB-08003	8 - 8	8/18/1994	0.4	U
SB-08003	10 - 10	8/18/1994	0.4	U
SB-08004	3.5 - 3.5	8/18/1994	0.3	U
SB-08004	8 - 8	8/18/1994	0.3	U
SB-08004	12 - 12	8/18/1994	0.4	U
SB-08705	2.5 - 2.5	8/18/1994	0.3	U
SB-08705	5 - 5	8/18/1994	0.4	U
SB-08705	7.5 - 7.5	8/18/1994	0.4	U
SB-08919	2.5 - 2.5	8/18/1994	0.3	U
SB-08919	7.5 - 7.5	8/18/1994	0.4	U
SB-08919	10 - 10	8/18/1994	0.4	U
SB-08924	2.5 - 2.5	8/18/1994	0.3	U
SB-08924	2.5 - 2.5	8/18/1994	0.3	U
SB-08924	7.5 - 7.5	8/18/1994	0.4	U
SB-08924	10 - 10	8/18/1994	0.4	U
SB-08915	2 - 2	8/17/1994	0.3	U
SB-08915	5 - 5	8/17/1994	0.3	U
SB-08915	7.5 - 7.5	8/17/1994	0.4	U
SB-09102	1 - 1	8/16/1994	0.3	U
SB-09102	1 - 1	8/16/1994	0.3	U
SB-09102	5 - 5	8/16/1994	0.4	U
SB-09102	7.5 - 7.5	8/16/1994	0.4	U
SB-09103	2.5 - 2.5	8/16/1994	0.3	U
SB-09103	7.5 - 7.5	8/16/1994	0.4	U
SB-09103	10 - 10	8/16/1994	0.4	U
SB-09104	1 - 1	8/16/1994	0.3	U
SB-09104	7.5 - 7.5	8/16/1994	0.4	U
SB-09104	10 - 10	8/16/1994	0.3	U
SB-10401	10 - 10	3/15/1994	0.4	U
SB-08201	6.5 - 6.5	12/21/1993	0.3	U
SB-08201	8 - 8	12/21/1993	0.3	U
SB-08201	11 - 11	12/21/1993	0.4	U
SB-08601	1.5 - 1.5	12/20/1993	0.3	U
SB-08601	7 - 7	12/20/1993	0.4	U
SB-08601	11 - 11	12/20/1993	0.4	U
SB-08303	5 - 5	12/13/1993	0.4	U
SB-08903	5 - 5	12/13/1993	0.3	U
SB-08903	5 - 5	12/13/1993	0.3	U
SB-08901	5 - 5	12/11/1993	0.4	U
SB-08901	7.5 - 7.5	12/11/1993	0.4	U
PL2-111A	1 - 1	12/9/1993	0.3	U
PL2-111A	5 - 5	12/9/1993	0.4	U

South Yard Area COC Results
Silver Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Silver (mg/kg) - 2004 Soil Screening Level = 0.32 mg/kg; PMCL = 0.3 mg/kg[3]				
SB-08602	1 - 1	12/9/1993	0.3	U
SB-08602	5 - 5	12/9/1993	0.4	U
SB-08904	1 - 1	12/9/1993	0.3	U
SB-08904	5 - 5	12/9/1993	0.4	U
SB-28201	1 - 1	12/9/1993	0.3	U
SB-28201	5 - 5	12/9/1993	0.3	U
SS-09101	0 - 0.5	11/29/1993	1.4	
SS-09112	0 - 0.5	11/29/1993	0.3	U
SS-09103	0 - 0.5	11/24/1993	0.6	
SS-09111	0 - 0.5	11/23/1993	0.3	U
SS-09111	0 - 0.5	11/23/1993	0.3	U
SS-09104	0 - 0.5	11/22/1993	0.3	U
SS-09102	0 - 0.5	11/19/1993	3	
SS-09109	0 - 0.5	11/19/1993	0.2	U
SS-09106	0 - 0.5	11/18/1993	0.3	U
SS-09108	0 - 0.5	11/17/1993	0.3	U
SS-09110	0 - 0.5	11/17/1993	0.3	U
SS-09105	0 - 0.5	11/16/1993	0.3	U
SS-09107	0 - 0.5	11/16/1993	0.4	
PL2-301A	5 - 5	7/8/1992	0.4	U
PL2-301A	10 - 10	7/8/1992	0.4	U
PL2-302A	5 - 5	7/8/1992	0.4	U
PL2-302A	10 - 10	7/8/1992	0.4	U
PL2-303A	5 - 5	7/8/1992	0.3	U
PL2-303A	10 - 10	7/8/1992	0.4	U
PL2-303A	10 - 10	7/8/1992	0.4	U
288-16	4 - 4	8/14/1991	0.2	U
288-17	4 - 4	8/14/1991	0.3	U
288-18	4 - 4	8/14/1991	0.3	U
288-19	4 - 4	8/14/1991	0.3	U
288-20	4 - 4	8/14/1991	0.3	U
288-21	4 - 4	8/14/1991	0.2	U
288-22	4 - 4	8/14/1991	0.3	U
288-23	4 - 4	8/14/1991	0.3	U
288-24	4 - 4	8/14/1991	0.2	U
288-13	2 - 2	8/13/1991	0.3	U
288-15	2 - 2	8/13/1991	0.3	U
CN4-N-B	11 - 11	9/16/1986	22	
PL2-101A	11 - 11	10/28/1985	0.2	
PL2-103A	4 - 4	10/28/1985	0.2	
PL2-103A	7 - 7	10/28/1985	0.2	
PL2-103A	10 - 10	10/28/1985	0.2	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Thallium (mg/kg) - 2004 Soil Screening Level = 0.67 mg/kg; PMCL = 8.9 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	5	U
DP-SY-01	4 - 5	3/8/2005	7	U
DP-SY-01	9 - 10	3/8/2005	6	U
DP-SY-02	0 - 1	3/7/2005	5	U
DP-SY-02	4 - 5	3/7/2005	6	U
DP-SY-02	9 - 10	3/7/2005	7	U
DP-SY-03	0 - 1	3/7/2005	5	U
DP-SY-03	4 - 5	3/7/2005	6	U
DP-SY-03	9 - 10	3/7/2005	5	U
DP-SY-04	0 - 1	3/7/2005	5	U
DP-SY-04	4 - 5	3/7/2005	5	U
DP-SY-04	9 - 10	3/7/2005	6	U
DP-SY-05	0 - 1	3/7/2005	5	U
DP-SY-05	4 - 5	3/7/2005	7	U
DP-SY-05	9 - 10	3/7/2005	6	U
DP-SY-06	0 - 1	3/7/2005	5	U
DP-SY-06	4 - 5	3/7/2005	6	U
DP-SY-06	9 - 10	3/7/2005	6	U
DP-SY-07	0 - 1	3/7/2005	5	U
DP-SY-07	4 - 5	3/7/2005	5	U
DP-SY-07	9 - 10	3/7/2005	6	U
DP-SY-08	0 - 1	3/7/2005	6	U
DP-SY-08	4 - 5	3/7/2005	7	U
DP-SY-08	9 - 10	3/7/2005	7	U
DP-SY-09	0 - 1	3/8/2005	6	U
DP-SY-09	4 - 5	3/8/2005	6	U
DP-SY-09	9 - 10	3/8/2005	6	U
DP-SY-10	0 - 1	3/8/2005	5	U
DP-SY-10	4 - 5	3/8/2005	5	U
DP-SY-10	9 - 10	3/8/2005	6	U
DP-SY-11	0 - 1	3/8/2005	5	U
DP-SY-11	4 - 5	3/8/2005	5	U
DP-SY-11	9 - 10	3/8/2005	6	U
DP-SY-12	0 - 1	3/8/2005	5	U
DP-SY-12	4 - 5	3/8/2005	5	U
DP-SY-12	9 - 10	3/8/2005	5	U
PL2-601A	0 - 1.5	3/1/2005	5	U
PL2-601A	3.5 - 5	3/1/2005	5	U
PL2-601A	8.5 - 10	3/1/2005	6	U
PL2-602A	0 - 1.5	3/1/2005	5	U
PL2-602A	3.5 - 5	3/1/2005	5	U
PL2-602A	8.5 - 10	3/1/2005	6	U
PL2-603A	0 - 1.5	2/28/2005	5	U
PL2-603A	3.5 - 5	2/28/2005	5	U
PL2-603A	8.5 - 10	2/28/2005	5	U
SB-08334	4 - 5	4/23/2002	6	
SB-08334	7.5 - 8.5	4/23/2002	5	U
SB-08335	4 - 5	4/23/2002	5	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Thallium (mg/kg) - 2004 Soil Screening Level = 0.67 mg/kg; PMCL = 8.9 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	6	U
SB-08332	4 - 5	4/15/2002	5	U
SB-08332	4 - 5	4/15/2002	5	U
SB-08332	9 - 10	4/15/2002	7	U
SB-08333	4 - 5	4/15/2002	5	U
SB-08333	9 - 10	4/15/2002	7	U
SB-08716	3 - 5	11/25/1998	6	U
SB-08716	8 - 10	11/25/1998	7	U
SB-08717	3 - 5	11/25/1998	6	U
SB-08717	8 - 10	11/25/1998	7	U
SB-08718	3 - 5	11/25/1998	7	U
SB-08718	8 - 10	11/25/1998	6	U
SB-08719	3 - 5	11/25/1998	6	U
SB-08719	8 - 10	11/25/1998	6	U
SB-08720	3 - 5	11/25/1998	6	U
SB-08720	8 - 10	11/25/1998	7	U
SB-08721	3 - 5	11/25/1998	6	U
SB-08721	8 - 10	11/25/1998	7	U
SB-08722	3 - 5	11/25/1998	6	U
SB-08722	8 - 10	11/25/1998	7	U
SB-08723	3 - 5	11/25/1998	6	U
SB-08723	8 - 10	11/25/1998	7	U
SB-08724	3 - 5	11/25/1998	5	U
SB-08724	8 - 10	11/25/1998	7	U
SB-08930	3 - 5	11/24/1998	6	U
SB-08930	8 - 10	11/24/1998	6	U
SB-08931	3 - 5	11/24/1998	6	U
SB-08931	8 - 10	11/24/1998	6	U
SB-08932	3 - 5	11/24/1998	6	U
SB-08932	8 - 10	11/24/1998	6	U
SB-08933	3 - 5	11/24/1998	5	U
SB-08933	8 - 10	11/24/1998	6	U
SB-08934	3 - 5	11/24/1998	5	U
SB-08934	8 - 10	11/24/1998	6	U
SB-08935	3 - 5	11/24/1998	6	U
SB-08935	8 - 10	11/24/1998	6	U
SB-08936	3 - 5	11/24/1998	6	U
SB-08936	8 - 10	11/24/1998	7	U
SB-08937	3 - 5	11/24/1998	6	U
SB-08937	8 - 10	11/24/1998	6	U
SB-08938	3 - 5	11/24/1998	5	U
SB-08938	8 - 10	11/24/1998	6	U
SB-08939	3 - 5	11/24/1998	6	U
SB-08939	8 - 10	11/24/1998	6	U
SB-08940	3 - 5	11/24/1998	6	U
SB-08940	8 - 10	11/24/1998	6	U
SB-08022	10 - 11	3/19/1998	7	U
SB-08020	10 - 11	3/18/1998	6	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Thallium (mg/kg) - 2004 Soil Screening Level = 0.67 mg/kg; PMCL = 8.9 mg/kg[3]				
SB-08021	9 - 10	3/18/1998	6	U
SB-08927	2 - 2	3/6/1995	5	U
SB-08927	6.5 - 6.5	3/6/1995	6	U
SB-08927	9.5 - 9.5	3/6/1995	7	U
SB-08929	2 - 2	3/6/1995	5	U
SB-08929	6.5 - 6.5	3/6/1995	6	U
SB-08929	9.5 - 9.5	3/6/1995	6	U
SB-08928	2.5 - 2.5	3/3/1995	5	U
SB-08928	4.5 - 4.5	3/3/1995	6	U
SB-08928	8.5 - 8.5	3/3/1995	6	U
SB-08926	2.5 - 2.5	3/2/1995	6	U
SB-08926	5.5 - 5.5	3/2/1995	6	U
SB-08926	8.5 - 8.5	3/2/1995	6	U
SB-08305	1 - 1	2/22/1995	5	U
SB-08305	5 - 5	2/22/1995	6	U
SB-08009	0.6 - 0.6	2/16/1995	5	U
SB-08009	6 - 6	2/16/1995	6	U
SB-08010	0.5 - 0.5	2/16/1995	5	U
SB-08010	6 - 6	2/16/1995	7	
SB-08008	3.5 - 3.5	2/15/1995	5	U
SB-08008	6.5 - 6.5	2/15/1995	6	
SB-08008	11.5 - 11.5	2/15/1995	9	
SB-08604	1.5 - 1.5	9/19/1994	6	U
SB-08604	6 - 6	9/19/1994	7	U
SB-08604	9 - 9	9/19/1994	7	U
SB-10403	10.5 - 10.5	9/7/1994	6	U
SB-10404	1.5 - 1.5	9/7/1994	5	U
SB-10404	6.5 - 6.5	9/7/1994	7	U
SB-10404	10.5 - 10.5	9/7/1994	7	U
SB-10405	10.5 - 10.5	9/7/1994	7	U
SB-08301	1.5 - 1.5	9/3/1994	6	U
SB-08301	4.5 - 4.5	9/3/1994	7	U
SB-08301	11.5 - 11.5	9/3/1994	6	U
SB-08302	2 - 2	9/3/1994	5	U
SB-08302	5 - 5	9/3/1994	6	U
SB-08302	11 - 11	9/3/1994	6	U
SB-08706	7.5 - 7.5	8/25/1994	6	U
SB-08706	10 - 10	8/25/1994	6	U
SB-08905	5 - 5	8/24/1994	6	U
SB-08905	7.5 - 7.5	8/24/1994	6	U
SB-08905	10 - 10	8/24/1994	6	U
SB-08917	1 - 1	8/23/1994	5	U
SB-08917	7.5 - 7.5	8/23/1994	7	U
SB-08917	10 - 10	8/23/1994	6	U
SB-08920	1 - 1	8/23/1994	5	U
SB-08920	7.5 - 7.5	8/23/1994	6	U
SB-08920	10 - 10	8/23/1994	6	U
SB-08909	5 - 5	8/19/1994	5	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Thallium (mg/kg) - 2004 Soil Screening Level = 0.67 mg/kg; PMCL = 8.9 mg/kg[3]				
SB-08909	7.5 - 7.5	8/19/1994	5	U
SB-08909	10 - 10	8/19/1994	5	U
SB-08922	1 - 1	8/19/1994	5	U
SB-08922	5 - 5	8/19/1994	6	U
SB-08922	10 - 10	8/19/1994	6	U
SB-08003	1.5 - 1.5	8/18/1994	6	U
SB-08003	8 - 8	8/18/1994	6	U
SB-08003	10 - 10	8/18/1994	6	U
SB-08004	3.5 - 3.5	8/18/1994	5	U
SB-08004	8 - 8	8/18/1994	5	U
SB-08004	12 - 12	8/18/1994	6	U
SB-08705	2.5 - 2.5	8/18/1994	5	U
SB-08705	5 - 5	8/18/1994	6	U
SB-08705	7.5 - 7.5	8/18/1994	7	U
SB-08919	2.5 - 2.5	8/18/1994	5	U
SB-08919	7.5 - 7.5	8/18/1994	7	U
SB-08919	10 - 10	8/18/1994	6	U
SB-08924	2.5 - 2.5	8/18/1994	5	U
SB-08924	2.5 - 2.5	8/18/1994	5	U
SB-08924	7.5 - 7.5	8/18/1994	7	U
SB-08924	10 - 10	8/18/1994	6	U
SB-08915	2 - 2	8/17/1994	5	U
SB-08915	5 - 5	8/17/1994	5	U
SB-08915	7.5 - 7.5	8/17/1994	6	U
SB-09102	1 - 1	8/16/1994	5	U
SB-09102	1 - 1	8/16/1994	5	U
SB-09102	5 - 5	8/16/1994	6	U
SB-09102	7.5 - 7.5	8/16/1994	6	U
SB-09103	2.5 - 2.5	8/16/1994	5	U
SB-09103	7.5 - 7.5	8/16/1994	6	U
SB-09103	10 - 10	8/16/1994	6	U
SB-09104	1 - 1	8/16/1994	5	U
SB-09104	7.5 - 7.5	8/16/1994	7	U
SB-09104	10 - 10	8/16/1994	6	U
SB-10401	10 - 10	3/15/1994	0.1	U
SB-08201	6.5 - 6.5	12/21/1993	0.1	U
SB-08201	8 - 8	12/21/1993	0.1	U
SB-08201	11 - 11	12/21/1993	0.1	U
SB-08601	1.5 - 1.5	12/20/1993	0.1	U
SB-08601	7 - 7	12/20/1993	0.2	
SB-08601	11 - 11	12/20/1993	0.1	U
SB-08303	5 - 5	12/13/1993	0.6	U
SB-08903	5 - 5	12/13/1993	0.1	
SB-08903	5 - 5	12/13/1993	0.2	
SB-08901	5 - 5	12/11/1993	0.7	U
SB-08901	7.5 - 7.5	12/11/1993	0.2	
PL2-111A	1 - 1	12/9/1993	0.1	U
PL2-111A	5 - 5	12/9/1993	0.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Thallium (mg/kg) - 2004 Soil Screening Level = 0.67 mg/kg; PMCL = 8.9 mg/kg[3]				
SB-08602	1 - 1	12/9/1993	0.1	U
SB-08602	5 - 5	12/9/1993	0.1	U
SB-08904	1 - 1	12/9/1993	0.1	U
SB-08904	5 - 5	12/9/1993	0.1	U
SB-28201	1 - 1	12/9/1993	0.1	U
SB-28201	5 - 5	12/9/1993	0.1	U
SS-09101	0 - 0.5	11/29/1993	0.1	U
SS-09112	0 - 0.5	11/29/1993	0.6	U
SS-09103	0 - 0.5	11/24/1993	0.1	
SS-09111	0 - 0.5	11/23/1993	0.1	U
SS-09111	0 - 0.5	11/23/1993	0.1	U
SS-09104	0 - 0.5	11/22/1993	0.5	U
SS-09102	0 - 0.5	11/19/1993	0.1	
SS-09109	0 - 0.5	11/19/1993	0.1	U
SS-09106	0 - 0.5	11/18/1993	0.5	U
SS-09108	0 - 0.5	11/17/1993	0.5	
SS-09110	0 - 0.5	11/17/1993	0.1	U
SS-09105	0 - 0.5	11/16/1993	0.5	U
SS-09107	0 - 0.5	11/16/1993	0.6	
PL2-301A	5 - 5	7/8/1992	6	U
PL2-301A	10 - 10	7/8/1992	6	U
PL2-302A	5 - 5	7/8/1992	6	U
PL2-302A	10 - 10	7/8/1992	6	U
PL2-303A	5 - 5	7/8/1992	6	
PL2-303A	10 - 10	7/8/1992	6	U
PL2-303A	10 - 10	7/8/1992	6	U
PL2-109B	9 - 9	7/7/1992	0.1	U
PL2-109C	6 - 6	7/6/1992	0.1	U
PL2-109C	9 - 9	7/6/1992	0.1	U
PL2-105C	3 - 3	6/25/1992	0.1	U
PL2-105C	10 - 10	6/25/1992	0.1	U
PL2-104B	6 - 6	6/24/1992	0.1	U
PL2-104B	11 - 11	6/24/1992	0.1	U
PL2-110C	6 - 6	6/22/1992	0.1	U
PL2-110C	9 - 9	6/22/1992	0.1	U
PL2-106C	7 - 7	6/18/1992	0.1	
PL2-106C	12 - 12	6/18/1992	0.1	U
288-16	4 - 4	8/14/1991	39	
288-17	4 - 4	8/14/1991	37	
288-18	4 - 4	8/14/1991	33	
288-19	4 - 4	8/14/1991	56	
288-20	4 - 4	8/14/1991	47	
288-21	4 - 4	8/14/1991	34	
288-22	4 - 4	8/14/1991	40	
288-23	4 - 4	8/14/1991	46	
288-24	4 - 4	8/14/1991	47	
288-13	2 - 2	8/13/1991	36	
288-15	2 - 2	8/13/1991	32	

South Yard Area COC Results
Thallium Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Thallium (mg/kg) - 2004 Soil Screening Level = 0.67 mg/kg; PMCL = 8.9 mg/kg[3]				

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Zinc Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Zinc (mg/kg) - 2004 Soil Screening Level = 101 mg/kg; PMCL = 107 mg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	33.5	
DP-SY-01	4 - 5	3/8/2005	53.7	
DP-SY-01	9 - 10	3/8/2005	42.9	
DP-SY-02	0 - 1	3/7/2005	50.4	
DP-SY-02	4 - 5	3/7/2005	23.3	
DP-SY-02	9 - 10	3/7/2005	64.3	
DP-SY-03	0 - 1	3/7/2005	32.4	
DP-SY-03	4 - 5	3/7/2005	17	
DP-SY-03	9 - 10	3/7/2005	35.3	
DP-SY-04	0 - 1	3/7/2005	48.7	
DP-SY-04	4 - 5	3/7/2005	27.5	
DP-SY-04	9 - 10	3/7/2005	23.7	
DP-SY-05	0 - 1	3/7/2005	23.5	
DP-SY-05	4 - 5	3/7/2005	22.5	
DP-SY-05	9 - 10	3/7/2005	24.1	
DP-SY-06	0 - 1	3/7/2005	83.3	
DP-SY-06	4 - 5	3/7/2005	22.5	
DP-SY-06	9 - 10	3/7/2005	27.3	
DP-SY-07	0 - 1	3/7/2005	19.9	
DP-SY-07	4 - 5	3/7/2005	22.5	
DP-SY-07	9 - 10	3/7/2005	22.5	
DP-SY-08	0 - 1	3/7/2005	50.7	
DP-SY-08	4 - 5	3/7/2005	47	
DP-SY-08	9 - 10	3/7/2005	26.7	
DP-SY-09	0 - 1	3/8/2005	17.8	
DP-SY-09	4 - 5	3/8/2005	24.5	
DP-SY-09	9 - 10	3/8/2005	19.7	
DP-SY-10	0 - 1	3/8/2005	30.4	
DP-SY-10	4 - 5	3/8/2005	20.1	
DP-SY-10	9 - 10	3/8/2005	31.4	
DP-SY-11	0 - 1	3/8/2005	21.7	
DP-SY-11	4 - 5	3/8/2005	21.9	
DP-SY-11	9 - 10	3/8/2005	32.4	
DP-SY-12	0 - 1	3/8/2005	25.8	
DP-SY-12	4 - 5	3/8/2005	22.8	
DP-SY-12	9 - 10	3/8/2005	21.2	
PL2-601A	0 - 1.5	3/1/2005	25.8	
PL2-601A	3.5 - 5	3/1/2005	21.8	
PL2-601A	8.5 - 10	3/1/2005	23.8	
PL2-602A	0 - 1.5	3/1/2005	23.5	
PL2-602A	3.5 - 5	3/1/2005	17.5	
PL2-602A	8.5 - 10	3/1/2005	28.5	
PL2-603A	0 - 1.5	2/28/2005	48.5	
PL2-603A	3.5 - 5	2/28/2005	29.5	
PL2-603A	8.5 - 10	2/28/2005	29.4	
SB-08334	4 - 5	4/23/2002	32	
SB-08334	7.5 - 8.5	4/23/2002	29.8	
SB-08335	4 - 5	4/23/2002	30	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Zinc (mg/kg) - 2004 Soil Screening Level = 101 mg/kg; PMCL = 107 mg/kg[3]				
SB-08335	9 - 10	4/23/2002	29.8	
SB-08332	4 - 5	4/15/2002	18	
SB-08332	4 - 5	4/15/2002	18	
SB-08332	9 - 10	4/15/2002	23.9	
SB-08333	4 - 5	4/15/2002	32.7	
SB-08333	9 - 10	4/15/2002	28	
SB-08754	8 - 10	7/20/1999	28.2	
SB-08949	8.5 - 10.5	6/22/1999	41.7	
SB-08950	8 - 10	6/20/1999	63.13775	
SB-08744	8 - 8	6/4/1999	28	
SB-08746	8 - 8	6/4/1999	53.8	
SB-08747	9 - 9	6/4/1999	58.1	
SB-08748	11 - 11	6/4/1999	27.3	
SB-08743	11 - 11	6/3/1999	3070	
SB-08941	8 - 8	5/25/1999	489	
SB-08942	11 - 11	5/25/1999	29.1	
SB-08943	11 - 11	5/25/1999	214	
SB-08944	11 - 11	5/25/1999	116	
SB-08945	8 - 8	5/25/1999	37.7	
SB-08716	3 - 5	11/25/1998	26.5	
SB-08716	8 - 10	11/25/1998	32	
SB-08717	3 - 5	11/25/1998	37.9	
SB-08717	8 - 10	11/25/1998	26.3	
SB-08718	3 - 5	11/25/1998	21.1	
SB-08718	8 - 10	11/25/1998	28.5	
SB-08719	3 - 5	11/25/1998	25.3	
SB-08719	8 - 10	11/25/1998	24.3	
SB-08720	3 - 5	11/25/1998	21.5	
SB-08720	8 - 10	11/25/1998	25.2	
SB-08721	3 - 5	11/25/1998	22.4	
SB-08721	8 - 10	11/25/1998	28	
SB-08722	3 - 5	11/25/1998	25.6	
SB-08722	8 - 10	11/25/1998	29.9	
SB-08723	3 - 5	11/25/1998	23.9	
SB-08723	8 - 10	11/25/1998	25.4	
SB-08724	3 - 5	11/25/1998	27	
SB-08724	8 - 10	11/25/1998	57.3	
SB-08930	3 - 5	11/24/1998	24.2	
SB-08930	8 - 10	11/24/1998	23.4	
SB-08931	3 - 5	11/24/1998	27.3	
SB-08931	8 - 10	11/24/1998	23.2	
SB-08932	3 - 5	11/24/1998	37.7	
SB-08932	8 - 10	11/24/1998	24.7	
SB-08933	3 - 5	11/24/1998	21.2	
SB-08933	8 - 10	11/24/1998	28.2	
SB-08934	3 - 5	11/24/1998	125	
SB-08934	8 - 10	11/24/1998	24.8	
SB-08935	3 - 5	11/24/1998	25.5	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Zinc (mg/kg) - 2004 Soil Screening Level = 101 mg/kg; PMCL = 107 mg/kg[3]				
SB-08935	8 - 10	11/24/1998	28.9	
SB-08936	3 - 5	11/24/1998	22.4	
SB-08936	8 - 10	11/24/1998	26.1	
SB-08937	3 - 5	11/24/1998	22.5	
SB-08937	8 - 10	11/24/1998	38.4	
SB-08938	3 - 5	11/24/1998	132	
SB-08938	8 - 10	11/24/1998	24.9	
SB-08939	3 - 5	11/24/1998	40.6	
SB-08939	8 - 10	11/24/1998	35.1	
SB-08940	3 - 5	11/24/1998	23.4	
SB-08940	8 - 10	11/24/1998	24.9	
SB-08022	10 - 11	3/19/1998	42.1	
SB-08020	10 - 11	3/18/1998	75.5	
SB-08021	9 - 10	3/18/1998	44.5	
SB-08927	2 - 2	3/6/1995	20.6	
SB-08927	6.5 - 6.5	3/6/1995	44.7	
SB-08927	9.5 - 9.5	3/6/1995	23.1	
SB-08929	2 - 2	3/6/1995	23.3	
SB-08929	6.5 - 6.5	3/6/1995	42.5	
SB-08929	9.5 - 9.5	3/6/1995	25.8	
SB-08928	2.5 - 2.5	3/3/1995	20.4	
SB-08928	4.5 - 4.5	3/3/1995	25.5	
SB-08928	8.5 - 8.5	3/3/1995	27.5	
SB-08926	2.5 - 2.5	3/2/1995	22.9	
SB-08926	5.5 - 5.5	3/2/1995	38.9	
SB-08926	8.5 - 8.5	3/2/1995	23.8	
SB-08305	1 - 1	2/22/1995	25.2	
SB-08305	5 - 5	2/22/1995	29.4	
SB-08009	0.6 - 0.6	2/16/1995	47.5	
SB-08009	6 - 6	2/16/1995	24.1	
SB-08010	0.5 - 0.5	2/16/1995	30	
SB-08010	6 - 6	2/16/1995	34.5	
SB-08008	3.5 - 3.5	2/15/1995	26.4	
SB-08008	6.5 - 6.5	2/15/1995	24.9	
SB-08008	11.5 - 11.5	2/15/1995	27.6	
SB-08604	1.5 - 1.5	9/19/1994	21.2	
SB-08604	6 - 6	9/19/1994	24	
SB-08604	9 - 9	9/19/1994	36	
SB-10403	10.5 - 10.5	9/7/1994	24.7	
SB-10404	1.5 - 1.5	9/7/1994	20.4	
SB-10404	6.5 - 6.5	9/7/1994	24	
SB-10404	10.5 - 10.5	9/7/1994	22.6	
SB-10405	10.5 - 10.5	9/7/1994	39.3	
SB-08301	1.5 - 1.5	9/3/1994	25.8	
SB-08301	4.5 - 4.5	9/3/1994	61.5	
SB-08301	11.5 - 11.5	9/3/1994	27.4	
SB-08302	2 - 2	9/3/1994	30.7	
SB-08302	5 - 5	9/3/1994	38.3	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Zinc (mg/kg) - 2004 Soil Screening Level = 101 mg/kg; PMCL = 107 mg/kg[3]				
SB-08302	11 - 11	9/3/1994	20.7	
SB-08706	7.5 - 7.5	8/25/1994	25.5	
SB-08706	10 - 10	8/25/1994	23.5	
SB-08905	5 - 5	8/24/1994	566	
SB-08905	7.5 - 7.5	8/24/1994	23.2	
SB-08905	10 - 10	8/24/1994	21.2	
SB-08917	1 - 1	8/23/1994	24.7	
SB-08917	7.5 - 7.5	8/23/1994	68.3	
SB-08917	10 - 10	8/23/1994	31.5	
SB-08920	1 - 1	8/23/1994	47.5	
SB-08920	7.5 - 7.5	8/23/1994	33.8	
SB-08920	10 - 10	8/23/1994	25.4	
SB-08909	5 - 5	8/19/1994	207	
SB-08909	7.5 - 7.5	8/19/1994	27.4	
SB-08909	10 - 10	8/19/1994	26.8	
SB-08922	1 - 1	8/19/1994	24.4	
SB-08922	5 - 5	8/19/1994	26.9	
SB-08922	10 - 10	8/19/1994	30.2	
SB-08003	1.5 - 1.5	8/18/1994	36.9	
SB-08003	8 - 8	8/18/1994	42.7	
SB-08003	10 - 10	8/18/1994	46	
SB-08004	3.5 - 3.5	8/18/1994	26.5	
SB-08004	8 - 8	8/18/1994	30.1	
SB-08004	12 - 12	8/18/1994	36.2	
SB-08705	2.5 - 2.5	8/18/1994	20.5	
SB-08705	5 - 5	8/18/1994	34	
SB-08705	7.5 - 7.5	8/18/1994	33.3	
SB-08919	2.5 - 2.5	8/18/1994	29.1	
SB-08919	7.5 - 7.5	8/18/1994	38.1	
SB-08919	10 - 10	8/18/1994	23.2	
SB-08924	2.5 - 2.5	8/18/1994	55.5	
SB-08924	2.5 - 2.5	8/18/1994	49.2	
SB-08924	7.5 - 7.5	8/18/1994	39.6	
SB-08924	10 - 10	8/18/1994	27.7	
SB-08915	2 - 2	8/17/1994	39.6	
SB-08915	5 - 5	8/17/1994	40.1	
SB-08915	7.5 - 7.5	8/17/1994	66.2	
SB-09102	1 - 1	8/16/1994	23.4	
SB-09102	1 - 1	8/16/1994	22.6	
SB-09102	5 - 5	8/16/1994	30	
SB-09102	7.5 - 7.5	8/16/1994	44.8	
SB-09103	2.5 - 2.5	8/16/1994	24.4	
SB-09103	7.5 - 7.5	8/16/1994	51.7	
SB-09103	10 - 10	8/16/1994	28.4	
SB-09104	1 - 1	8/16/1994	28.9	
SB-09104	7.5 - 7.5	8/16/1994	66.3	
SB-09104	10 - 10	8/16/1994	29.4	
SB-10401	10 - 10	3/15/1994	23.8	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Zinc (mg/kg) - 2004 Soil Screening Level = 101 mg/kg; PMCL = 107 mg/kg[3]				
SB-08201	6.5 - 6.5	12/21/1993	38.3	
SB-08201	8 - 8	12/21/1993	30.8	
SB-08201	11 - 11	12/21/1993	31.1	
SB-08601	1.5 - 1.5	12/20/1993	20	
SB-08601	7 - 7	12/20/1993	46.3	
SB-08601	11 - 11	12/20/1993	24	
SB-08303	5 - 5	12/13/1993	92.9	
SB-08903	5 - 5	12/13/1993	29	
SB-08903	5 - 5	12/13/1993	27.6	
SB-08901	5 - 5	12/11/1993	39.2	
SB-08901	7.5 - 7.5	12/11/1993	30.1	
PL2-111A	1 - 1	12/9/1993	27.4	
PL2-111A	5 - 5	12/9/1993	39.9	
SB-08602	1 - 1	12/9/1993	22.9	
SB-08602	5 - 5	12/9/1993	35	
SB-08904	1 - 1	12/9/1993	26.1	
SB-08904	5 - 5	12/9/1993	32.4	
SB-28201	1 - 1	12/9/1993	21.2	
SB-28201	5 - 5	12/9/1993	23.2	
SS-09101	0 - 0.5	11/29/1993	454	
SS-09112	0 - 0.5	11/29/1993	56.8	
SS-09103	0 - 0.5	11/24/1993	66.6	
SS-09111	0 - 0.5	11/23/1993	48.8	
SS-09111	0 - 0.5	11/23/1993	43.1	
SS-09104	0 - 0.5	11/22/1993	210	
SS-09102	0 - 0.5	11/19/1993	70.6	
SS-09109	0 - 0.5	11/19/1993	49.6	
SS-09106	0 - 0.5	11/18/1993	45.6	
SS-09108	0 - 0.5	11/17/1993	92.6	
SS-09110	0 - 0.5	11/17/1993	42.5	
SS-09105	0 - 0.5	11/16/1993	246	
SS-09107	0 - 0.5	11/16/1993	104	
PL2-301A	5 - 5	7/8/1992	437	
PL2-301A	10 - 10	7/8/1992	21.8	
PL2-302A	5 - 5	7/8/1992	25	
PL2-302A	10 - 10	7/8/1992	27.8	
PL2-303A	5 - 5	7/8/1992	42.5	
PL2-303A	10 - 10	7/8/1992	24.6	
PL2-303A	10 - 10	7/8/1992	30.8	
PL2-109B	9 - 9	7/7/1992	40.1	
PL2-109C	6 - 6	7/6/1992	20.4	
PL2-109C	9 - 9	7/6/1992	27.3	
PL2-105C	3 - 3	6/25/1992	22.9	
PL2-105C	10 - 10	6/25/1992	23.6	
PL2-104B	6 - 6	6/24/1992	38.8	
PL2-104B	11 - 11	6/24/1992	28	
PL2-110C	6 - 6	6/22/1992	22.3	
PL2-110C	9 - 9	6/22/1992	27.4	

South Yard Area COC Results
Zinc Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
Zinc (mg/kg) - 2004 Soil Screening Level = 101 mg/kg; PMCL = 107 mg/kg[3]				
PL2-106C	7 - 7	6/18/1992	35.4	
PL2-106C	12 - 12	6/18/1992	25.7	
288-16	4 - 4	8/14/1991	24.5	
288-17	4 - 4	8/14/1991	22.1	
288-18	4 - 4	8/14/1991	22.2	
288-19	4 - 4	8/14/1991	34	
288-20	4 - 4	8/14/1991	35.8	
288-21	4 - 4	8/14/1991	18.7	
288-22	4 - 4	8/14/1991	22.5	
288-23	4 - 4	8/14/1991	20.5	
288-24	4 - 4	8/14/1991	20.8	
288-13	2 - 2	8/13/1991	24.4	
288-15	2 - 2	8/13/1991	19.3	
CN4-N-B	11 - 11	9/16/1986	26000	
PL2-101A	11 - 11	10/28/1985	27	
PL2-103A	4 - 4	10/28/1985	37	
PL2-103A	7 - 7	10/28/1985	28	
PL2-103A	10 - 10	10/28/1985	24	

South Yard Area COC Results
Benzo(a)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)anthracene (µg/kg) - 2004 Soil Screening Level = 41.9 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	6.6	U
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	4 - 5	3/8/2005	6.5	U
DP-SY-01	9 - 10	3/8/2005	6.6	U
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	180	
DP-SY-02	0 - 1	3/7/2005	210	
DP-SY-02	4 - 5	3/7/2005	6.4	U
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	6.5	U
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	6.6	U
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	6.3	U
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	6.5	U
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	6.6	U
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	4 - 5	3/7/2005	6.5	U
DP-SY-04	9 - 10	3/7/2005	6.6	U
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	6.4	U
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	4 - 5	3/7/2005	6.3	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-06	0 - 1	3/7/2005	66	U
DP-SY-06	0 - 1	3/7/2005	20	U
DP-SY-06	4 - 5	3/7/2005	6.6	U
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-06	9 - 10	3/7/2005	6.5	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	0 - 1	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	U
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	U
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	9.1	
DP-SY-08	0 - 1	3/7/2005	65	U

South Yard Area COC Results
Benzo(a)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)anthracene (µg/kg) - 2004 Soil Screening Level = 41.9 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	4 - 5	3/7/2005	7.3	
DP-SY-08	9 - 10	3/7/2005	6.4	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	0 - 1	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
DP-SY-09	9 - 10	3/8/2005	6.5	U
PL2-602A	0 - 1.5	3/1/2005	6.4	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	3.5 - 5	3/1/2005	6.6	U
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-602A	8.5 - 10	3/1/2005	6.4	U
PL2-603A	0 - 1.5	2/28/2005	6.3	
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	72	
PL2-603A	3.5 - 5	2/28/2005	78	
PL2-603A	8.5 - 10	2/28/2005	64	U
PL2-603A	8.5 - 10	2/28/2005	6.4	U
SB-08334	4 - 5	4/23/2002	1.9	U
SB-08334	4 - 5	4/23/2002	19	U
SB-08334	7.5 - 8.5	4/23/2002	2	
SB-08334	7.5 - 8.5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	11	
SB-08335	9 - 10	4/23/2002	20	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	9 - 10	4/15/2002	20	U
SB-08332	9 - 10	4/15/2002	2	U
SB-08333	4 - 5	4/15/2002	20	U
SB-08333	4 - 5	4/15/2002	2.2	
SB-08333	9 - 10	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	20	U
SB-08604	1.5 - 1.5	9/19/1994	72	U
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	88	U
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	86	U
SB-08301	1.5 - 1.5	9/3/1994	76	U

South Yard Area COC Results
Benzo(a)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)anthracene (µg/kg) - 2004 Soil Screening Level = 41.9 µg/kg; PMCL = 2.9 µg/kg[3]				
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	88	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	87	U
SB-08915	2 - 2	8/17/1994	75	U
SB-08915	5 - 5	8/17/1994	74	U
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	79	U
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	100	
SB-08903	5 - 5	12/13/1993	61	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66	U
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	68	U
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	2100	U
SS-09102	0 - 0.5	11/19/1993	2200	U
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	4300	U
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U

South Yard Area COC Results
Benzo(a)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)anthracene (µg/kg) - 2004 Soil Screening Level = 41.9 µg/kg; PMCL = 2.9 µg/kg[3]				
PL2-105C	3 - 3	6/25/1992	11	U
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	14	U
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	13	U
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	72	
288-20	4 - 4	8/14/1991	58	U
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	57	U
288-5	3 - 3	8/13/1991	60	U
288-6	1 - 1	8/13/1991	59	U
288-6	3 - 3	8/13/1991	61	U
SB291-3	5 - 5	1/12/1989	340	U
SB291-3	9.5 - 9.5	1/12/1989	70	U
SB291-6	2.5 - 7.5	1/12/1989	66	U
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	40000	U
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Benzo(b)fluoranthene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(b)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	9.9	J
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	4 - 5	3/8/2005	6.5	U
DP-SY-01	9 - 10	3/8/2005	6.6	U
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	230	
DP-SY-02	0 - 1	3/7/2005	290	
DP-SY-02	4 - 5	3/7/2005	6.4	U
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	6.5	U
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	6.6	U
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	6.3	U
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	6.5	U
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	14	
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	4 - 5	3/7/2005	6.5	U
DP-SY-04	9 - 10	3/7/2005	6.6	U
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	6.4	U
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	4 - 5	3/7/2005	6.3	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-06	0 - 1	3/7/2005	66	U
DP-SY-06	0 - 1	3/7/2005	20	U
DP-SY-06	4 - 5	3/7/2005	6.6	U
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-06	9 - 10	3/7/2005	6.5	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	0 - 1	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	15	
DP-SY-08	0 - 1	3/7/2005	65	U

South Yard Area COC Results
Benzo(b)fluoranthene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(b)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	4 - 5	3/7/2005	7.9	
DP-SY-08	9 - 10	3/7/2005	6.4	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	0 - 1	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
DP-SY-09	9 - 10	3/8/2005	6.5	U
PL2-602A	0 - 1.5	3/1/2005	6.4	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	3.5 - 5	3/1/2005	6.6	U
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-602A	8.5 - 10	3/1/2005	6.4	U
PL2-603A	0 - 1.5	2/28/2005	6.3	U
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	65	
PL2-603A	3.5 - 5	2/28/2005	65	U
PL2-603A	8.5 - 10	2/28/2005	64	U
PL2-603A	8.5 - 10	2/28/2005	6.4	U
SB-08334	4 - 5	4/23/2002	1.9	U
SB-08334	4 - 5	4/23/2002	19	U
SB-08334	7.5 - 8.5	4/23/2002	2.5	
SB-08334	7.5 - 8.5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	12	
SB-08335	9 - 10	4/23/2002	20	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	9 - 10	4/15/2002	20	U
SB-08332	9 - 10	4/15/2002	2	U
SB-08333	4 - 5	4/15/2002	20	U
SB-08333	4 - 5	4/15/2002	4	
SB-08333	9 - 10	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	20	U
SB-08604	1.5 - 1.5	9/19/1994	72	U
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	88	U
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	86	U
SB-08301	1.5 - 1.5	9/3/1994	76	U

South Yard Area COC Results
Benzo(b)fluoranthene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(b)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	88	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	87	U
SB-08915	2 - 2	8/17/1994	75	U
SB-08915	5 - 5	8/17/1994	74	U
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	79	U
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	66	U
SB-08903	5 - 5	12/13/1993	61	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66	U
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	68	U
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	10000	Y
SS-09102	0 - 0.5	11/19/1993	2200	U
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	4300	U
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U

South Yard Area COC Results
Benzo(b)fluoranthene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(b)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
PL2-105C	3 - 3	6/25/1992	11	U
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	14	U
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	13	U
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	840	
288-20	4 - 4	8/14/1991	58	U
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	57	U
288-5	3 - 3	8/13/1991	60	U
288-6	1 - 1	8/13/1991	59	U
288-6	3 - 3	8/13/1991	61	U
SB291-3	5 - 5	1/12/1989	340	U
SB291-3	9.5 - 9.5	1/12/1989	70	U
SB291-6	2.5 - 7.5	1/12/1989	66	U
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	40000	U
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Benzo(k)fluoranthene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(k)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	8.6	J
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	4 - 5	3/8/2005	8.4	
DP-SY-01	9 - 10	3/8/2005	6.6	U
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	210	
DP-SY-02	0 - 1	3/7/2005	170	
DP-SY-02	4 - 5	3/7/2005	6.4	U
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	6.5	U
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	6.6	U
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	6.3	U
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	6.5	U
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	11	
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	4 - 5	3/7/2005	6.5	U
DP-SY-04	9 - 10	3/7/2005	6.6	U
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	6.4	U
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	4 - 5	3/7/2005	6.3	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-06	0 - 1	3/7/2005	66	U
DP-SY-06	0 - 1	3/7/2005	20	U
DP-SY-06	4 - 5	3/7/2005	6.6	U
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-06	9 - 10	3/7/2005	6.5	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	0 - 1	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	15	
DP-SY-08	0 - 1	3/7/2005	65	U

South Yard Area COC Results
Benzo(k)fluoranthene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(k)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	4 - 5	3/7/2005	5.3	J
DP-SY-08	9 - 10	3/7/2005	6.4	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	0 - 1	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
DP-SY-09	9 - 10	3/8/2005	6.5	U
PL2-602A	0 - 1.5	3/1/2005	6.4	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	3.5 - 5	3/1/2005	6.6	U
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-602A	8.5 - 10	3/1/2005	6.4	U
PL2-603A	0 - 1.5	2/28/2005	6.3	U
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	56	
PL2-603A	3.5 - 5	2/28/2005	84	
PL2-603A	8.5 - 10	2/28/2005	64	U
PL2-603A	8.5 - 10	2/28/2005	6.4	U
SB-08334	4 - 5	4/23/2002	1.9	U
SB-08334	4 - 5	4/23/2002	19	U
SB-08334	7.5 - 8.5	4/23/2002	2	U
SB-08334	7.5 - 8.5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	11	
SB-08335	9 - 10	4/23/2002	20	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	9 - 10	4/15/2002	20	U
SB-08332	9 - 10	4/15/2002	2	U
SB-08333	4 - 5	4/15/2002	20	U
SB-08333	4 - 5	4/15/2002	3.4	
SB-08333	9 - 10	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	20	U
SB-08604	1.5 - 1.5	9/19/1994	72	U
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	88	U
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	86	U
SB-08301	1.5 - 1.5	9/3/1994	76	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(k)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	88	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	87	U
SB-08915	2 - 2	8/17/1994	75	U
SB-08915	5 - 5	8/17/1994	74	U
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	79	U
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	88	
SB-08903	5 - 5	12/13/1993	61	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66	U
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	68	U
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	13000	Y
SS-09102	0 - 0.5	11/19/1993	2200	U
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	4300	U
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U

South Yard Area COC Results
Benzo(k)fluoranthene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(k)fluoranthene (µg/kg) - 2004 Soil Screening Level = 144 µg/kg; PMCL = 2.9 µg/kg[3]				
PL2-105C	3 - 3	6/25/1992	11	U
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	14	U
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	13	U
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	840	
288-20	4 - 4	8/14/1991	58	U
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	57	U
288-5	3 - 3	8/13/1991	60	U
288-6	1 - 1	8/13/1991	59	U
288-6	3 - 3	8/13/1991	61	U
SB291-3	5 - 5	1/12/1989	340	U
SB291-3	9.5 - 9.5	1/12/1989	70	U
SB291-6	2.5 - 7.5	1/12/1989	66	U
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	40000	U
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Benzo(a)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)pyrene (µg/kg) - 2004 Soil Screening Level = 113 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	6.6	U
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	4 - 5	3/8/2005	6.5	U
DP-SY-01	9 - 10	3/8/2005	6.6	U
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	230	
DP-SY-02	0 - 1	3/7/2005	220	
DP-SY-02	4 - 5	3/7/2005	6.4	U
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	6.5	U
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	6.6	U
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	6.3	U
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	6.5	U
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	7.3	
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	4 - 5	3/7/2005	6.5	U
DP-SY-04	9 - 10	3/7/2005	6.6	U
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	6.4	U
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	4 - 5	3/7/2005	6.3	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-06	0 - 1	3/7/2005	66	U
DP-SY-06	0 - 1	3/7/2005	33	
DP-SY-06	4 - 5	3/7/2005	6.6	U
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-06	9 - 10	3/7/2005	6.5	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	0 - 1	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	9.7	
DP-SY-08	0 - 1	3/7/2005	65	U

South Yard Area COC Results
Benzo(a)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)pyrene (µg/kg) - 2004 Soil Screening Level = 113 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	4 - 5	3/7/2005	6.6	U
DP-SY-08	9 - 10	3/7/2005	6.4	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	0 - 1	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
DP-SY-09	9 - 10	3/8/2005	6.5	U
PL2-602A	0 - 1.5	3/1/2005	6.4	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	3.5 - 5	3/1/2005	22	
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-602A	8.5 - 10	3/1/2005	39	
PL2-603A	0 - 1.5	2/28/2005	6.3	U
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	72	
PL2-603A	3.5 - 5	2/28/2005	80	
PL2-603A	8.5 - 10	2/28/2005	64	U
PL2-603A	8.5 - 10	2/28/2005	6.4	U
SB-08334	4 - 5	4/23/2002	1.9	U
SB-08334	4 - 5	4/23/2002	19	U
SB-08334	7.5 - 8.5	4/23/2002	2	U
SB-08334	7.5 - 8.5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	12	
SB-08335	9 - 10	4/23/2002	20	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	9 - 10	4/15/2002	20	U
SB-08332	9 - 10	4/15/2002	2	U
SB-08333	4 - 5	4/15/2002	20	U
SB-08333	4 - 5	4/15/2002	3.2	
SB-08333	9 - 10	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	20	U
SB-08604	1.5 - 1.5	9/19/1994	72	U
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	88	U
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	86	U
SB-08301	1.5 - 1.5	9/3/1994	76	U

South Yard Area COC Results
Benzo(a)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)pyrene (µg/kg) - 2004 Soil Screening Level = 113 µg/kg; PMCL = 2.9 µg/kg[3]				
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	88	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	87	U
SB-08915	2 - 2	8/17/1994	75	U
SB-08915	5 - 5	8/17/1994	74	U
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	79	U
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	89	
SB-08903	5 - 5	12/13/1993	61	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66	U
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	68	U
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	2100	U
SS-09102	0 - 0.5	11/19/1993	2200	U
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	4300	U
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U

South Yard Area COC Results
Benzo(a)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzo(a)pyrene (µg/kg) - 2004 Soil Screening Level = 113 µg/kg; PMCL = 2.9 µg/kg[3]				
PL2-105C	3 - 3	6/25/1992	11	U
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	14	U
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	13	U
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	1400	
288-20	4 - 4	8/14/1991	58	U
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	57	U
288-5	3 - 3	8/13/1991	60	U
288-6	1 - 1	8/13/1991	59	U
288-6	3 - 3	8/13/1991	61	U
SB291-3	5 - 5	1/12/1989	340	U
SB291-3	9.5 - 9.5	1/12/1989	70	U
SB291-6	2.5 - 7.5	1/12/1989	66	U
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	40000	U
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Chrysene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Chrysene (µg/kg) - 2004 Soil Screening Level = 46.6 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	7.3	
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	4 - 5	3/8/2005	7.8	
DP-SY-01	9 - 10	3/8/2005	10	
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	240	
DP-SY-02	0 - 1	3/7/2005	240	
DP-SY-02	4 - 5	3/7/2005	6.4	U
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	6.5	U
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	6.6	U
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	6.3	U
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	11	
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	9.3	
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	4 - 5	3/7/2005	6.5	U
DP-SY-04	9 - 10	3/7/2005	6.6	U
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	6.4	U
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	4 - 5	3/7/2005	6.3	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-06	0 - 1	3/7/2005	66	U
DP-SY-06	0 - 1	3/7/2005	30	
DP-SY-06	4 - 5	3/7/2005	6.6	U
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-06	9 - 10	3/7/2005	6.5	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	0 - 1	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	U
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	U
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	12	
DP-SY-08	0 - 1	3/7/2005	65	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Chrysene (µg/kg) - 2004 Soil Screening Level = 46.6 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	4 - 5	3/7/2005	8.6	
DP-SY-08	9 - 10	3/7/2005	6.4	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	0 - 1	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
DP-SY-09	9 - 10	3/8/2005	6.5	U
PL2-602A	0 - 1.5	3/1/2005	6.4	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	3.5 - 5	3/1/2005	6.6	U
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-602A	8.5 - 10	3/1/2005	6.4	U
PL2-603A	0 - 1.5	2/28/2005	9.5	
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	82	
PL2-603A	3.5 - 5	2/28/2005	91	
PL2-603A	8.5 - 10	2/28/2005	64	U
PL2-603A	8.5 - 10	2/28/2005	6.4	U
SB-08334	4 - 5	4/23/2002	1.9	U
SB-08334	4 - 5	4/23/2002	19	U
SB-08334	7.5 - 8.5	4/23/2002	3.1	
SB-08334	7.5 - 8.5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	15	
SB-08335	9 - 10	4/23/2002	20	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	9 - 10	4/15/2002	20	U
SB-08332	9 - 10	4/15/2002	2	U
SB-08333	4 - 5	4/15/2002	20	U
SB-08333	4 - 5	4/15/2002	4.8	
SB-08333	9 - 10	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	20	U
SB-08604	1.5 - 1.5	9/19/1994	72	U
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	88	U
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	86	U
SB-08301	1.5 - 1.5	9/3/1994	76	U

South Yard Area COC Results
Chrysene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Chrysene (µg/kg) - 2004 Soil Screening Level = 46.6 µg/kg; PMCL = 2.9 µg/kg[3]				
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	88	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	87	U
SB-08915	2 - 2	8/17/1994	75	U
SB-08915	5 - 5	8/17/1994	74	U
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	79	U
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	130	
SB-08903	5 - 5	12/13/1993	61	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66	U
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	68	U
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	2100	U
SS-09102	0 - 0.5	11/19/1993	2200	U
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	4300	U
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U

South Yard Area COC Results
Chrysene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Chrysene (µg/kg) - 2004 Soil Screening Level = 46.6 µg/kg; PMCL = 2.9 µg/kg[3]				
PL2-105C	3 - 3	6/25/1992	11	U
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	7.9	N
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	13	U
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	57	J
288-20	4 - 4	8/14/1991	58	U
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	70	N
288-5	3 - 3	8/13/1991	94	
288-6	1 - 1	8/13/1991	110	N
288-6	3 - 3	8/13/1991	63	N
SB291-3	5 - 5	1/12/1989	340	U
SB291-3	9.5 - 9.5	1/12/1989	70	U
SB291-6	2.5 - 7.5	1/12/1989	66	U
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	40000	U
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results

Dibenz(a,h)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Dibenz(a,h)anthracene (µg/kg) - 2004 Soil Screening Level = 210 ug/kg; PMCL = 2.9 ug/kg[3]				
DP-SY-01	0 - 1	3/8/2005	6.6	U
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	4 - 5	3/8/2005	6.5	U
DP-SY-01	9 - 10	3/8/2005	6.6	U
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	70	U
DP-SY-02	0 - 1	3/7/2005	30	
DP-SY-02	4 - 5	3/7/2005	6.4	UJ
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	6.5	UJ
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	6.6	UJ
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	6.3	UJ
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	6.5	U
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	6.6	UJ
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	4 - 5	3/7/2005	6.5	UJ
DP-SY-04	9 - 10	3/7/2005	6.6	UJ
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	6.4	UJ
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	4 - 5	3/7/2005	6.3	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-06	0 - 1	3/7/2005	66	U
DP-SY-06	0 - 1	3/7/2005	20	U
DP-SY-06	4 - 5	3/7/2005	6.6	U
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-06	9 - 10	3/7/2005	6.5	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	0 - 1	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	6.5	U
DP-SY-08	0 - 1	3/7/2005	65	U

South Yard Area COC Results
Dibenz(a,h)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Dibenz(a,h)anthracene (µg/kg) - 2004 Soil Screening Level = 210 ug/kg; PMCL = 2.9 ug/kg[3]				
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	4 - 5	3/7/2005	6.6	U
DP-SY-08	9 - 10	3/7/2005	6.4	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	0 - 1	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
DP-SY-09	9 - 10	3/8/2005	6.5	U
PL2-602A	0 - 1.5	3/1/2005	6.4	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	3.5 - 5	3/1/2005	6.6	U
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-602A	8.5 - 10	3/1/2005	6.4	U
PL2-603A	0 - 1.5	2/28/2005	6.3	U
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	12	J
PL2-603A	3.5 - 5	2/28/2005	65	U
PL2-603A	8.5 - 10	2/28/2005	64	U
PL2-603A	8.5 - 10	2/28/2005	6.4	U
SB-08334	4 - 5	4/23/2002	1.9	U
SB-08334	4 - 5	4/23/2002	19	U
SB-08334	7.5 - 8.5	4/23/2002	2	U
SB-08334	7.5 - 8.5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	20	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	9 - 10	4/15/2002	20	U
SB-08332	9 - 10	4/15/2002	2	U
SB-08333	4 - 5	4/15/2002	20	U
SB-08333	4 - 5	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	20	U
SB-08604	1.5 - 1.5	9/19/1994	72	U
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	88	U
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	86	U
SB-08301	1.5 - 1.5	9/3/1994	76	U

South Yard Area COC Results
Dibenz(a,h)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Dibenz(a,h)anthracene (µg/kg) - 2004 Soil Screening Level = 210 ug/kg; PMCL = 2.9 ug/kg[3]				
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	88	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	87	U
SB-08915	2 - 2	8/17/1994	75	U
SB-08915	5 - 5	8/17/1994	74	U
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	79	U
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	66	U
SB-08903	5 - 5	12/13/1993	61	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66	U
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	68	U
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	2100	U
SS-09102	0 - 0.5	11/19/1993	2200	U
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	4300	U
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U

South Yard Area COC Results
Dibenz(a,h)anthracene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Dibenz(a,h)anthracene (µg/kg) - 2004 Soil Screening Level = 210 ug/kg; PMCL = 2.9 ug/kg[3]				
PL2-105C	3 - 3	6/25/1992	11	U
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	14	U
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	13	U
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	1900	
288-20	4 - 4	8/14/1991	87	
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	57	U
288-5	3 - 3	8/13/1991	60	U
288-6	1 - 1	8/13/1991	59	U
288-6	3 - 3	8/13/1991	61	U
SB291-3	5 - 5	1/12/1989	340	U
SB291-3	9.5 - 9.5	1/12/1989	70	U
SB291-6	2.5 - 7.5	1/12/1989	66	U
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	40000	U
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
bis(2-Ethylhexyl)phthalate Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
bis(2-Ethylhexyl)phthalate (µg/kg) - 2004 Soil Screening Level = 1,570 µg/kg; PMCL = 350 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	70	U
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-06	0 - 1	3/7/2005	100	
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	4 - 5	3/7/2005	63	U
DP-SY-07	4 - 5	3/7/2005	63	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	65	U
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	65	U
PL2-603A	8.5 - 10	2/28/2005	64	U
SB-08334	4 - 5	4/23/2002	110	U
SB-08334	7.5 - 8.5	4/23/2002	160	U
SB-08335	4 - 5	4/23/2002	98	U
SB-08335	9 - 10	4/23/2002	59	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	140	U
SB-08332	9 - 10	4/15/2002	44	U
SB-08333	4 - 5	4/15/2002	110	U
SB-08333	9 - 10	4/15/2002	160	U
SB-08754	8 - 10	7/20/1999	90	U
SB-08744	8 - 8	6/4/1999	85	U
SB-08746	8 - 8	6/4/1999	90	U
SB-08747	9 - 9	6/4/1999	100	U
SB-08748	11 - 11	6/4/1999	87	U

South Yard Area COC Results
bis(2-Ethylhexyl)phthalate Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
bis(2-Ethylhexyl)phthalate (µg/kg) - 2004 Soil Screening Level = 1,570 µg/kg; PMCL = 350 µg/kg[3]				
SB-08743	11 - 11	6/3/1999	88	U
SB-10410	5 - 5	5/26/1999	500	
SB-08941	8 - 8	5/25/1999	240	
SB-08942	11 - 11	5/25/1999	110	
SB-08943	11 - 11	5/25/1999	260	
SB-08944	11 - 11	5/25/1999	330	
SB-08945	8 - 8	5/25/1999	93	J
SB-10406	10 - 10	5/25/1999	90	
SB-10407	5 - 5	5/25/1999	74	U
SB-10408	5 - 5	5/25/1999	470	
SB-10409	5 - 5	5/25/1999	180	
SB-08604	1.5 - 1.5	9/19/1994	77	
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	92	
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	95	
SB-08301	1.5 - 1.5	9/3/1994	76	U
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	170	
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	100	
SB-08915	2 - 2	8/17/1994	150	
SB-08915	5 - 5	8/17/1994	87	
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	100	B
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	66	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08903	5 - 5	12/13/1993	61	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	700	
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U

South Yard Area COC Results
bis(2-Ethylhexyl)phthalate Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
bis(2-Ethylhexyl)phthalate (µg/kg) - 2004 Soil Screening Level = 1,570 µg/kg; PMCL = 350 µg/kg[3]				
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	1600	
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	10000	Y
SS-09102	0 - 0.5	11/19/1993	4600	
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	8000	
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U
PL2-105C	3 - 3	6/25/1992	8.3	J
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	12	J
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	8.1	J
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	330	
288-20	4 - 4	8/14/1991	95	
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	180	
288-5	3 - 3	8/13/1991	60	U
288-6	1 - 1	8/13/1991	4200	
288-6	3 - 3	8/13/1991	2800	
SB291-3	5 - 5	1/12/1989	2500	
SB291-3	9.5 - 9.5	1/12/1989	110	
SB291-6	2.5 - 7.5	1/12/1989	170	
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	330000	
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Indeno(1,2,3-cd)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Indeno(1,2,3-cd)pyrene (µg/kg) - 2004 Soil Screening Level = 406 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	6.6	U
DP-SY-01	0 - 1	3/8/2005	66	U
DP-SY-01	4 - 5	3/8/2005	65	U
DP-SY-01	4 - 5	3/8/2005	6.5	U
DP-SY-01	9 - 10	3/8/2005	6.6	U
DP-SY-01	9 - 10	3/8/2005	66	U
DP-SY-02	0 - 1	3/7/2005	110	
DP-SY-02	0 - 1	3/7/2005	95	
DP-SY-02	4 - 5	3/7/2005	6.4	U
DP-SY-02	4 - 5	3/7/2005	64	U
DP-SY-02	9 - 10	3/7/2005	6.5	U
DP-SY-02	9 - 10	3/7/2005	65	U
DP-SY-03	0 - 1	3/7/2005	6.6	U
DP-SY-03	0 - 1	3/7/2005	66	U
DP-SY-03	4 - 5	3/7/2005	6.3	U
DP-SY-03	4 - 5	3/7/2005	63	U
DP-SY-03	9 - 10	3/7/2005	6.5	U
DP-SY-03	9 - 10	3/7/2005	65	U
DP-SY-04	0 - 1	3/7/2005	9.9	
DP-SY-04	0 - 1	3/7/2005	66	U
DP-SY-04	4 - 5	3/7/2005	65	U
DP-SY-04	4 - 5	3/7/2005	6.5	U
DP-SY-04	9 - 10	3/7/2005	6.6	U
DP-SY-04	9 - 10	3/7/2005	66	U
DP-SY-05	0 - 1	3/7/2005	6.4	U
DP-SY-05	0 - 1	3/7/2005	64	U
DP-SY-05	4 - 5	3/7/2005	63	U
DP-SY-05	4 - 5	3/7/2005	6.3	U
DP-SY-05	9 - 10	3/7/2005	64	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-05	9 - 10	3/7/2005	6.4	U
DP-SY-06	0 - 1	3/7/2005	66	U
DP-SY-06	0 - 1	3/7/2005	20	U
DP-SY-06	4 - 5	3/7/2005	6.6	U
DP-SY-06	4 - 5	3/7/2005	66	U
DP-SY-06	9 - 10	3/7/2005	65	U
DP-SY-06	9 - 10	3/7/2005	6.5	U
DP-SY-07	0 - 1	3/7/2005	63	U
DP-SY-07	0 - 1	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	4 - 5	3/7/2005	63	UJ
DP-SY-07	4 - 5	3/7/2005	6.3	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	6.4	U
DP-SY-07	9 - 10	3/7/2005	64	U
DP-SY-08	0 - 1	3/7/2005	6.5	U
DP-SY-08	0 - 1	3/7/2005	65	U

South Yard Area COC Results
Indeno(1,2,3-cd)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Indeno(1,2,3-cd)pyrene (µg/kg) - 2004 Soil Screening Level = 406 µg/kg; PMCL = 2.9 µg/kg[3]				
DP-SY-08	4 - 5	3/7/2005	66	U
DP-SY-08	4 - 5	3/7/2005	6.6	U
DP-SY-08	9 - 10	3/7/2005	6.4	U
DP-SY-08	9 - 10	3/7/2005	64	U
DP-SY-09	0 - 1	3/8/2005	66	U
DP-SY-09	0 - 1	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	6.6	U
DP-SY-09	4 - 5	3/8/2005	66	U
DP-SY-09	9 - 10	3/8/2005	65	U
DP-SY-09	9 - 10	3/8/2005	6.5	U
PL2-602A	0 - 1.5	3/1/2005	6.4	U
PL2-602A	0 - 1.5	3/1/2005	64	U
PL2-602A	3.5 - 5	3/1/2005	66	U
PL2-602A	3.5 - 5	3/1/2005	6.6	U
PL2-602A	8.5 - 10	3/1/2005	64	U
PL2-602A	8.5 - 10	3/1/2005	6.4	U
PL2-603A	0 - 1.5	2/28/2005	6.3	U
PL2-603A	0 - 1.5	2/28/2005	63	U
PL2-603A	3.5 - 5	2/28/2005	45	
PL2-603A	3.5 - 5	2/28/2005	65	U
PL2-603A	8.5 - 10	2/28/2005	64	U
PL2-603A	8.5 - 10	2/28/2005	6.4	U
SB-08334	4 - 5	4/23/2002	1.9	U
SB-08334	4 - 5	4/23/2002	19	U
SB-08334	7.5 - 8.5	4/23/2002	2	U
SB-08334	7.5 - 8.5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	20	U
SB-08335	4 - 5	4/23/2002	2	U
SB-08335	9 - 10	4/23/2002	6.1	
SB-08335	9 - 10	4/23/2002	20	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	4 - 5	4/15/2002	1.9	U
SB-08332	4 - 5	4/15/2002	19	U
SB-08332	9 - 10	4/15/2002	20	U
SB-08332	9 - 10	4/15/2002	2	U
SB-08333	4 - 5	4/15/2002	20	U
SB-08333	4 - 5	4/15/2002	2.4	
SB-08333	9 - 10	4/15/2002	2	U
SB-08333	9 - 10	4/15/2002	20	U
SB-08604	1.5 - 1.5	9/19/1994	72	U
SB-08604	6 - 6	9/19/1994	89	U
SB-08604	6 - 6	9/19/1994	88	U
SB-08604	9 - 9	9/19/1994	89	U
SB-08304	2 - 2	9/13/1994	75	U
SB-08304	8 - 8	9/13/1994	98	U
SB-08304	10.5 - 10.5	9/13/1994	86	U
SB-08301	1.5 - 1.5	9/3/1994	76	U

South Yard Area COC Results
Indeno(1,2,3-cd)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Indeno(1,2,3-cd)pyrene (µg/kg) - 2004 Soil Screening Level = 406 µg/kg; PMCL = 2.9 µg/kg[3]				
SB-08301	4.5 - 4.5	9/3/1994	94	U
SB-08301	11.5 - 11.5	9/3/1994	87	U
SB-08302	2 - 2	9/3/1994	75	U
SB-08302	5 - 5	9/3/1994	87	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	88	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	84	U
SB-08909	7.5 - 7.5	8/19/1994	86	U
SB-08909	10 - 10	8/19/1994	87	U
SB-08915	2 - 2	8/17/1994	75	U
SB-08915	5 - 5	8/17/1994	74	U
SB-08915	7.5 - 7.5	8/17/1994	92	U
SB-10401	10 - 10	3/15/1994	79	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	79	U
SB-08601	1.5 - 1.5	12/20/1993	29	U
SB-08601	7 - 7	12/20/1993	35	U
SB-08601	11 - 11	12/20/1993	34	U
SB-08303	5 - 5	12/13/1993	66	U
SB-08903	5 - 5	12/13/1993	61	U
SB-08903	5 - 5	12/13/1993	64	U
SB-08901	5 - 5	12/11/1993	81	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66	U
PL2-111A	5 - 5	12/9/1993	81	U
SB-08602	1 - 1	12/9/1993	62	U
SB-08904	1 - 1	12/9/1993	65	U
SB-08904	5 - 5	12/9/1993	68	U
SB-28201	1 - 1	12/9/1993	63	U
SS-09101	0 - 0.5	11/29/1993	2300	U
SS-09112	0 - 0.5	11/29/1993	11000	U
SS-09103	0 - 0.5	11/24/1993	69	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09104	0 - 0.5	11/22/1993	2100	U
SS-09102	0 - 0.5	11/19/1993	2200	U
SS-09109	0 - 0.5	11/19/1993	64	U
SS-09106	0 - 0.5	11/18/1993	67	U
SS-09108	0 - 0.5	11/17/1993	430	U
SS-09110	0 - 0.5	11/17/1993	64	U
SS-09105	0 - 0.5	11/16/1993	4300	U
SS-09107	0 - 0.5	11/16/1993	4000	U
PL2-109B	9 - 9	7/7/1992	28	U
PL2-109C	6 - 6	7/6/1992	26	U
PL2-109C	9 - 9	7/6/1992	27	U

South Yard Area COC Results
Indeno(1,2,3-cd)pyrene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Indeno(1,2,3-cd)pyrene (µg/kg) - 2004 Soil Screening Level = 406 µg/kg; PMCL = 2.9 µg/kg[3]				
PL2-105C	3 - 3	6/25/1992	11	U
PL2-105C	10 - 10	6/25/1992	13	U
PL2-104B	6 - 6	6/24/1992	14	U
PL2-104B	11 - 11	6/24/1992	13	U
PL2-110C	6 - 6	6/22/1992	22	U
PL2-110C	9 - 9	6/22/1992	13	U
PL2-106C	7 - 7	6/18/1992	14	U
PL2-106C	12 - 12	6/18/1992	13	U
288-19	4 - 4	8/14/1991	2000	
288-20	4 - 4	8/14/1991	97	
288-11	0.5 - 0.5	8/13/1991	59	U
288-12	0.5 - 0.5	8/13/1991	58	U
288-4	3 - 3	8/13/1991	59	U
288-5	1 - 1	8/13/1991	57	U
288-5	3 - 3	8/13/1991	60	U
288-6	1 - 1	8/13/1991	59	U
288-6	3 - 3	8/13/1991	61	U
SB291-3	5 - 5	1/12/1989	340	U
SB291-3	9.5 - 9.5	1/12/1989	70	U
SB291-6	2.5 - 7.5	1/12/1989	66	U
SB291-9	5 - 5	1/12/1989	69	U
PL2-112A	10.5 - 10.5	1/10/1989	73	U
PL2-101A	11 - 11	10/28/1985	40000	U
PL2-103A	4 - 4	10/28/1985	40000	U
PL2-103A	7 - 7	10/28/1985	40	U
PL2-103A	10 - 10	10/28/1985	40	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Aroclor 1016-1242 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1016/1242 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	70	U
DP-SY-01	4 - 5	3/8/2005	33	U
DP-SY-01	9 - 10	3/8/2005	32	U
DP-SY-02	0 - 1	3/7/2005	110	U
DP-SY-02	4 - 5	3/7/2005	33	U
DP-SY-02	9 - 10	3/7/2005	32	U
DP-SY-03	0 - 1	3/7/2005	33	U
DP-SY-03	4 - 5	3/7/2005	32	U
DP-SY-03	9 - 10	3/7/2005	33	U
DP-SY-04	0 - 1	3/7/2005	100	U
DP-SY-04	4 - 5	3/7/2005	32	U
DP-SY-04	9 - 10	3/7/2005	33	U
DP-SY-05	0 - 1	3/7/2005	33	U
DP-SY-05	4 - 5	3/7/2005	32	U
DP-SY-05	9 - 10	3/7/2005	33	U
DP-SY-06	0 - 1	3/7/2005	78	U
DP-SY-06	4 - 5	3/7/2005	32	U
DP-SY-06	9 - 10	3/7/2005	32	U
DP-SY-07	0 - 1	3/7/2005	33	U
DP-SY-07	4 - 5	3/7/2005	33	U
DP-SY-07	9 - 10	3/7/2005	33	U
DP-SY-08	0 - 1	3/7/2005	33	U
DP-SY-08	4 - 5	3/7/2005	32	U
DP-SY-08	9 - 10	3/7/2005	33	U
DP-SY-09	0 - 1	3/8/2005	33	U
DP-SY-09	4 - 5	3/8/2005	33	U
DP-SY-09	9 - 10	3/8/2005	33	U
DP-SY-10	0 - 1	3/8/2005	32	U
DP-SY-10	4 - 5	3/8/2005	33	U
DP-SY-10	9 - 10	3/8/2005	33	U
DP-SY-11	0 - 1	3/8/2005	33	U
DP-SY-11	4 - 5	3/8/2005	33	U
DP-SY-11	9 - 10	3/8/2005	33	U
DP-SY-12	0 - 1	3/8/2005	33	U
DP-SY-12	4 - 5	3/8/2005	33	U
DP-SY-12	9 - 10	3/8/2005	32	U
PL2-601A	0 - 1.5	3/1/2005	33	U
PL2-601A	3.5 - 5	3/1/2005	32	U
PL2-601A	8.5 - 10	3/1/2005	32	U
PL2-602A	0 - 1.5	3/1/2005	33	U
PL2-602A	3.5 - 5	3/1/2005	33	U
PL2-602A	8.5 - 10	3/1/2005	32	U
PL2-603A	0 - 1.5	2/28/2005	38	U
PL2-603A	3.5 - 5	2/28/2005	35	U
PL2-603A	8.5 - 10	2/28/2005	36	U
SB-08754	8 - 10	7/20/1999	45	U
SB-08752	3 - 5	6/21/1999	35	U
SB-08753	3 - 5	6/21/1999	35	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1016/1242 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08744	8 - 8	6/4/1999	42	U
SB-08746	8 - 8	6/4/1999	45	U
SB-08747	9 - 9	6/4/1999	52	U
SB-08748	11 - 11	6/4/1999	44	U
SB-08743	11 - 11	6/3/1999	44	U
SB-08738	10 - 10	5/28/1999	38	U
SB-08741	3 - 3	5/28/1999	35	U
SB-08742	5 - 5	5/28/1999	38	U
SB-08733	2.5 - 2.5	5/25/1999	36	U
SB-08734	5 - 5	5/25/1999	45	U
SB-08735	2.5 - 2.5	5/25/1999	36	U
SB-08736	2.5 - 2.5	5/25/1999	36	U
SB-08737	5 - 5	5/25/1999	45	U
SB-08941	8 - 8	5/25/1999	47	U
SB-08942	11 - 11	5/25/1999	45	U
SB-08943	11 - 11	5/25/1999	44	U
SB-08944	11 - 11	5/25/1999	44	U
SB-08945	8 - 8	5/25/1999	47	U
SB-08728	3 - 3	5/18/1999	72	U
SB-08729	3 - 3	5/18/1999	36	U
SB-08730	3 - 3	5/18/1999	83	U
SB-08731	3 - 3	5/18/1999	35	U
SB-08732	3 - 3	5/18/1999	78	U
SB-08716	3 - 5	11/25/1998	42	U
SB-08716	8 - 10	11/25/1998	45	U
SB-08717	3 - 5	11/25/1998	39	U
SB-08717	8 - 10	11/25/1998	43	U
SB-08718	3 - 5	11/25/1998	42	U
SB-08718	8 - 10	11/25/1998	43	U
SB-08719	3 - 5	11/25/1998	42	U
SB-08719	8 - 10	11/25/1998	42	U
SB-08720	3 - 5	11/25/1998	40	U
SB-08720	8 - 10	11/25/1998	44	U
SB-08721	3 - 5	11/25/1998	42	U
SB-08721	8 - 10	11/25/1998	44	U
SB-08722	3 - 5	11/25/1998	43	U
SB-08722	8 - 10	11/25/1998	45	U
SB-08723	3 - 5	11/25/1998	39	U
SB-08723	8 - 10	11/25/1998	43	U
SB-08724	3 - 5	11/25/1998	37	U
SB-08724	8 - 10	11/25/1998	46	U
SB-08930	3 - 5	11/24/1998	36	U
SB-08930	8 - 10	11/24/1998	42	U
SB-08931	3 - 5	11/24/1998	41	U
SB-08931	8 - 10	11/24/1998	41	U
SB-08932	3 - 5	11/24/1998	43	U
SB-08932	8 - 10	11/24/1998	43	U
SB-08933	3 - 5	11/24/1998	40	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1016/1242 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08933	8 - 10	11/24/1998	41	U
SB-08934	3 - 5	11/24/1998	38	U
SB-08934	8 - 10	11/24/1998	41	U
SB-08935	3 - 5	11/24/1998	39	U
SB-08935	8 - 10	11/24/1998	44	U
SB-08936	3 - 5	11/24/1998	39	U
SB-08936	8 - 10	11/24/1998	43	U
SB-08937	3 - 5	11/24/1998	39	U
SB-08937	8 - 10	11/24/1998	46	U
SB-08938	3 - 5	11/24/1998	37	U
SB-08938	8 - 10	11/24/1998	40	U
SB-08939	3 - 5	11/24/1998	37	U
SB-08939	8 - 10	11/24/1998	41	U
SB-08940	3 - 5	11/24/1998	39	U
SB-08940	8 - 10	11/24/1998	41	U
SB-08714	2 - 2	9/22/1995	42	U
SB-08714	7 - 7	9/22/1995	48	U
SB-08714	10 - 10	9/22/1995	43	U
SB-08715	2 - 2	9/22/1995	39	U
SB-08715	2 - 2	9/22/1995	36	U
SB-08715	7 - 7	9/22/1995	50	U
SB-08715	9.5 - 9.5	9/22/1995	44	U
SB-08310	2 - 2	8/25/1995	40	U
SB-08310	7 - 7	8/25/1995	44	U
SB-08310	9 - 9	8/25/1995	42	U
SB-08311	2 - 2	8/25/1995	38	U
SB-08311	7 - 7	8/25/1995	43	U
SB-08311	9 - 9	8/25/1995	43	U
SB-08312	2 - 2	8/25/1995	37	U
SB-08312	7 - 7	8/25/1995	44	U
SB-08312	9 - 9	8/25/1995	42	U
SB-08307	1.5 - 1.5	7/31/1995	37	U
SB-08307	5 - 5	7/31/1995	37	U
SB-08307	7.5 - 7.5	7/31/1995	44	U
SB-08308	1.5 - 1.5	7/28/1995	37	U
SB-08308	5 - 5	7/28/1995	42	U
SB-08308	7.5 - 7.5	7/28/1995	44	U
SB-08309	9 - 9	7/28/1995	44	U
SB-08711	2 - 2	7/24/1995	37	U
SB-08711	7 - 7	7/24/1995	47	U
SB-08711	10 - 10	7/24/1995	43	U
SB-08712	2 - 2	7/24/1995	36	U
SB-08712	6.5 - 6.5	7/24/1995	47	U
SB-08712	8.5 - 8.5	7/24/1995	46	U
SB-08709	6 - 6	2/24/1995	45	U
SB-08709	7 - 7	2/24/1995	56	U
SB-08709	10.5 - 10.5	2/24/1995	43	U
SB-08710	6 - 6	2/24/1995	46	U

South Yard Area COC Results
Aroclor 1016-1242 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1016/1242 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08710	8 - 8	2/24/1995	44	U
SB-08710	11 - 11	2/24/1995	43	U
SB-08305	1 - 1	2/22/1995	37	U
SB-08305	5 - 5	2/22/1995	41	U
SB-08009	0.6 - 0.6	2/16/1995	36	U
SB-08009	6 - 6	2/16/1995	39	U
SB-08010	0.5 - 0.5	2/16/1995	36	U
SB-08010	6 - 6	2/16/1995	44	U
SB-11001	6 - 6	9/12/1994	90	U
SB-11001	9.5 - 9.5	9/12/1994	90	U
SB-08301	1.5 - 1.5	9/3/1994	74	U
SB-08301	4.5 - 4.5	9/3/1994	820	
SB-08301	11.5 - 11.5	9/3/1994	85	U
SB-08302	2 - 2	9/3/1994	74	U
SB-08302	5 - 5	9/3/1994	86	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08706	7.5 - 7.5	8/25/1994	84	UJH
SB-08706	10 - 10	8/25/1994	87	U
SB-08905	5 - 5	8/24/1994	89	U
SB-08905	7.5 - 7.5	8/24/1994	75	U
SB-08905	10 - 10	8/24/1994	84	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	90	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	85	U
SB-08909	7.5 - 7.5	8/19/1994	360	UI
SB-08909	10 - 10	8/19/1994	88	U
SB-08003	1.5 - 1.5	8/18/1994	77	U
SB-08003	8 - 8	8/18/1994	90	U
SB-08003	10 - 10	8/18/1994	86	U
SB-08004	3.5 - 3.5	8/18/1994	71	U
SB-08004	8 - 8	8/18/1994	73	U
SB-08004	12 - 12	8/18/1994	91	U
SB-08705	2.5 - 2.5	8/18/1994	73	U
SB-08705	5 - 5	8/18/1994	96	U
SB-08705	7.5 - 7.5	8/18/1994	88	U
SB-08924	2.5 - 2.5	8/18/1994	70	U
SB-08924	2.5 - 2.5	8/18/1994	70	U
SB-08924	7.5 - 7.5	8/18/1994	93	U
SB-08924	10 - 10	8/18/1994	86	U
SB-09102	1 - 1	8/16/1994	71	U
SB-09102	1 - 1	8/16/1994	72	U
SB-09102	5 - 5	8/16/1994	90	U
SB-09102	7.5 - 7.5	8/16/1994	110	UI
SB-09103	2.5 - 2.5	8/16/1994	70	U
SB-09103	7.5 - 7.5	8/16/1994	130	UI
SB-09103	10 - 10	8/16/1994	86	U
SB-09104	1 - 1	8/16/1994	72	U

South Yard Area COC Results
Aroclor 1016-1242 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1016/1242 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-09104	7.5 - 7.5	8/16/1994	110	UI
SB-09104	10 - 10	8/16/1994	87	U
SB-10401	10 - 10	3/15/1994	78	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	78	U
SB-08303	5 - 5	12/13/1993	78.7	U
SB-08903	5 - 5	12/13/1993	61.5	U
SB-08903	5 - 5	12/13/1993	64.1	U
SB-08901	5 - 5	12/11/1993	82	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66.2	U
PL2-111A	5 - 5	12/9/1993	81.3	U
SB-08602	1 - 1	12/9/1993	62.3	U
SB-08904	1 - 1	12/9/1993	65.1	U
SB-08904	5 - 5	12/9/1993	68.5	U
SB-28201	1 - 1	12/9/1993	62.9	U
SS-09101	0 - 0.5	11/29/1993	160	UIJ
SS-09112	0 - 0.5	11/29/1993	1100	U
SS-09103	0 - 0.5	11/24/1993	80	U
SS-09111	0 - 0.5	11/23/1993	80	U
SS-09111	0 - 0.5	11/23/1993	80	U
SS-09104	0 - 0.5	11/22/1993	2200	UI
SS-09102	0 - 0.5	11/19/1993	3900	UI
SS-09109	0 - 0.5	11/19/1993	62	U
SS-09106	0 - 0.5	11/18/1993	80	UJ
SS-09108	0 - 0.5	11/17/1993	850	U
SS-09110	0 - 0.5	11/17/1993	62	UJ
SS-09105	0 - 0.5	11/16/1993	900	
SS-09107	0 - 0.5	11/16/1993	870	U
PL2-301A	5 - 5	7/8/1992	80	U
PL2-301A	10 - 10	7/8/1992	80	U
PL2-302A	5 - 5	7/8/1992	80	U
PL2-302A	10 - 10	7/8/1992	80	U
PL2-303A	5 - 5	7/8/1992	80	U
PL2-303A	10 - 10	7/8/1992	80	U
PL2-303A	10 - 10	7/8/1992	80	U
PL2-109B	9 - 9	7/7/1992	15	U
PL2-109C	6 - 6	7/6/1992	15	U
PL2-109C	9 - 9	7/6/1992	15	U
PL2-105C	3 - 3	6/25/1992	15	U
PL2-105C	10 - 10	6/25/1992	15	U
PL2-104B	6 - 6	6/24/1992	15	U
PL2-104B	11 - 11	6/24/1992	15	U
PL2-110C	6 - 6	6/22/1992	15	U
PL2-110C	9 - 9	6/22/1992	15	U
PL2-106C	7 - 7	6/18/1992	15	U
PL2-106C	12 - 12	6/18/1992	15	U

South Yard Area COC Results
Aroclor 1016-1242 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1016/1242 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
288-16	4 - 4	8/14/1991	60	U
288-17	4 - 4	8/14/1991	10000	U
288-18	4 - 4	8/14/1991	60	U
288-19	4 - 4	8/14/1991	60	U
288-20	4 - 4	8/14/1991	60	U
288-21	4 - 4	8/14/1991	60	U
288-22	4 - 4	8/14/1991	60	U
288-23	4 - 4	8/14/1991	60	U
288-24	4 - 4	8/14/1991	60	U
288-13	2 - 2	8/13/1991	60	U
288-15	2 - 2	8/13/1991	60	U
SB291-3	9.5 - 9.5	1/12/1989	3000	U
SB291-4	9.5 - 9.5	1/12/1989	300	U
SB291-5	9.5 - 9.5	1/12/1989	300	U
SB291-6	2.5 - 7.5	1/12/1989	300	U
SB291-9	5 - 5	1/12/1989	50	U
SB291-10	10 - 10	1/11/1989	300	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Aroclor 1254 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1254 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	130	
DP-SY-01	4 - 5	3/8/2005	33	U
DP-SY-01	9 - 10	3/8/2005	32	U
DP-SY-02	0 - 1	3/7/2005	230	
DP-SY-02	4 - 5	3/7/2005	33	U
DP-SY-02	9 - 10	3/7/2005	32	U
DP-SY-03	0 - 1	3/7/2005	90	
DP-SY-03	4 - 5	3/7/2005	32	U
DP-SY-03	9 - 10	3/7/2005	49	
DP-SY-04	0 - 1	3/7/2005	330	
DP-SY-04	4 - 5	3/7/2005	80	
DP-SY-04	9 - 10	3/7/2005	33	U
DP-SY-05	0 - 1	3/7/2005	33	U
DP-SY-05	4 - 5	3/7/2005	32	U
DP-SY-05	9 - 10	3/7/2005	33	U
DP-SY-06	0 - 1	3/7/2005	230	
DP-SY-06	4 - 5	3/7/2005	32	U
DP-SY-06	9 - 10	3/7/2005	32	U
DP-SY-07	0 - 1	3/7/2005	33	U
DP-SY-07	4 - 5	3/7/2005	33	U
DP-SY-07	9 - 10	3/7/2005	33	U
DP-SY-08	0 - 1	3/7/2005	63	
DP-SY-08	4 - 5	3/7/2005	32	U
DP-SY-08	9 - 10	3/7/2005	33	U
DP-SY-09	0 - 1	3/8/2005	33	U
DP-SY-09	4 - 5	3/8/2005	33	U
DP-SY-09	9 - 10	3/8/2005	33	U
DP-SY-10	0 - 1	3/8/2005	32	U
DP-SY-10	4 - 5	3/8/2005	33	U
DP-SY-10	9 - 10	3/8/2005	33	U
DP-SY-11	0 - 1	3/8/2005	33	U
DP-SY-11	4 - 5	3/8/2005	33	U
DP-SY-11	9 - 10	3/8/2005	33	U
DP-SY-12	0 - 1	3/8/2005	33	U
DP-SY-12	4 - 5	3/8/2005	33	U
DP-SY-12	9 - 10	3/8/2005	32	U
PL2-601A	0 - 1.5	3/1/2005	33	U
PL2-601A	3.5 - 5	3/1/2005	32	U
PL2-601A	8.5 - 10	3/1/2005	32	U
PL2-602A	0 - 1.5	3/1/2005	33	U
PL2-602A	3.5 - 5	3/1/2005	33	U
PL2-602A	8.5 - 10	3/1/2005	32	U
PL2-603A	0 - 1.5	2/28/2005	38	U
PL2-603A	3.5 - 5	2/28/2005	35	U
PL2-603A	8.5 - 10	2/28/2005	36	U
SB-08754	8 - 10	7/20/1999	45	U
SB-08752	3 - 5	6/21/1999	16	J
SB-08753	3 - 5	6/21/1999	35	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1254 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08744	8 - 8	6/4/1999	42	U
SB-08746	8 - 8	6/4/1999	45	U
SB-08747	9 - 9	6/4/1999	52	U
SB-08748	11 - 11	6/4/1999	44	U
SB-08743	11 - 11	6/3/1999	450	
SB-08738	10 - 10	5/28/1999	290	
SB-08741	3 - 3	5/28/1999	35	U
SB-08742	5 - 5	5/28/1999	170	
SB-08733	2.5 - 2.5	5/25/1999	36	U
SB-08734	5 - 5	5/25/1999	45	U
SB-08735	2.5 - 2.5	5/25/1999	36	U
SB-08736	2.5 - 2.5	5/25/1999	36	U
SB-08737	5 - 5	5/25/1999	45	U
SB-08941	8 - 8	5/25/1999	47	U
SB-08942	11 - 11	5/25/1999	45	U
SB-08943	11 - 11	5/25/1999	44	U
SB-08944	11 - 11	5/25/1999	44	U
SB-08945	8 - 8	5/25/1999	47	U
SB-08728	3 - 3	5/18/1999	690	
SB-08729	3 - 3	5/18/1999	270	
SB-08730	3 - 3	5/18/1999	840	
SB-08731	3 - 3	5/18/1999	140	
SB-08732	3 - 3	5/18/1999	690	
SB-08716	3 - 5	11/25/1998	42	U
SB-08716	8 - 10	11/25/1998	45	U
SB-08717	3 - 5	11/25/1998	39	U
SB-08717	8 - 10	11/25/1998	43	U
SB-08718	3 - 5	11/25/1998	42	U
SB-08718	8 - 10	11/25/1998	43	U
SB-08719	3 - 5	11/25/1998	42	U
SB-08719	8 - 10	11/25/1998	42	U
SB-08720	3 - 5	11/25/1998	40	U
SB-08720	8 - 10	11/25/1998	44	U
SB-08721	3 - 5	11/25/1998	42	U
SB-08721	8 - 10	11/25/1998	44	U
SB-08722	3 - 5	11/25/1998	43	U
SB-08722	8 - 10	11/25/1998	45	U
SB-08723	3 - 5	11/25/1998	39	U
SB-08723	8 - 10	11/25/1998	43	U
SB-08724	3 - 5	11/25/1998	37	U
SB-08724	8 - 10	11/25/1998	46	U
SB-08930	3 - 5	11/24/1998	36	U
SB-08930	8 - 10	11/24/1998	42	U
SB-08931	3 - 5	11/24/1998	41	U
SB-08931	8 - 10	11/24/1998	41	U
SB-08932	3 - 5	11/24/1998	43	U
SB-08932	8 - 10	11/24/1998	43	U
SB-08933	3 - 5	11/24/1998	40	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1254 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08933	8 - 10	11/24/1998	41	U
SB-08934	3 - 5	11/24/1998	38	U
SB-08934	8 - 10	11/24/1998	41	U
SB-08935	3 - 5	11/24/1998	39	U
SB-08935	8 - 10	11/24/1998	44	U
SB-08936	3 - 5	11/24/1998	39	U
SB-08936	8 - 10	11/24/1998	43	U
SB-08937	3 - 5	11/24/1998	39	U
SB-08937	8 - 10	11/24/1998	46	U
SB-08938	3 - 5	11/24/1998	37	U
SB-08938	8 - 10	11/24/1998	40	U
SB-08939	3 - 5	11/24/1998	37	U
SB-08939	8 - 10	11/24/1998	41	U
SB-08940	3 - 5	11/24/1998	39	U
SB-08940	8 - 10	11/24/1998	41	U
SB-08714	2 - 2	9/22/1995	42	U
SB-08714	7 - 7	9/22/1995	48	U
SB-08714	10 - 10	9/22/1995	43	U
SB-08715	2 - 2	9/22/1995	39	U
SB-08715	2 - 2	9/22/1995	36	U
SB-08715	7 - 7	9/22/1995	50	U
SB-08715	9.5 - 9.5	9/22/1995	44	U
SB-08310	2 - 2	8/25/1995	40	U
SB-08310	7 - 7	8/25/1995	44	U
SB-08310	9 - 9	8/25/1995	42	U
SB-08311	2 - 2	8/25/1995	38	U
SB-08311	7 - 7	8/25/1995	43	U
SB-08311	9 - 9	8/25/1995	43	U
SB-08312	2 - 2	8/25/1995	37	U
SB-08312	7 - 7	8/25/1995	44	U
SB-08312	9 - 9	8/25/1995	42	U
SB-08307	1.5 - 1.5	7/31/1995	37	U
SB-08307	5 - 5	7/31/1995	37	U
SB-08307	7.5 - 7.5	7/31/1995	44	U
SB-08308	1.5 - 1.5	7/28/1995	37	U
SB-08308	5 - 5	7/28/1995	42	U
SB-08308	7.5 - 7.5	7/28/1995	44	U
SB-08309	9 - 9	7/28/1995	44	U
SB-08711	2 - 2	7/24/1995	37	U
SB-08711	7 - 7	7/24/1995	47	U
SB-08711	10 - 10	7/24/1995	43	U
SB-08712	2 - 2	7/24/1995	36	U
SB-08712	6.5 - 6.5	7/24/1995	47	U
SB-08712	8.5 - 8.5	7/24/1995	46	U
SB-08709	6 - 6	2/24/1995	45	U
SB-08709	7 - 7	2/24/1995	56	U
SB-08709	10.5 - 10.5	2/24/1995	43	U
SB-08710	6 - 6	2/24/1995	46	U

South Yard Area COC Results
Aroclor 1254 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1254 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08710	8 - 8	2/24/1995	44	U
SB-08710	11 - 11	2/24/1995	43	U
SB-08305	1 - 1	2/22/1995	37	U
SB-08305	5 - 5	2/22/1995	41	U
SB-08009	0.6 - 0.6	2/16/1995	36	U
SB-08009	6 - 6	2/16/1995	39	U
SB-08010	0.5 - 0.5	2/16/1995	36	U
SB-08010	6 - 6	2/16/1995	44	U
SB-11001	6 - 6	9/12/1994	90	U
SB-11001	9.5 - 9.5	9/12/1994	90	U
SB-08301	1.5 - 1.5	9/3/1994	74	U
SB-08301	4.5 - 4.5	9/3/1994	92	U
SB-08301	11.5 - 11.5	9/3/1994	85	U
SB-08302	2 - 2	9/3/1994	74	U
SB-08302	5 - 5	9/3/1994	86	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08706	7.5 - 7.5	8/25/1994	84	UJH
SB-08706	10 - 10	8/25/1994	87	U
SB-08905	5 - 5	8/24/1994	56	J
SB-08905	7.5 - 7.5	8/24/1994	75	U
SB-08905	10 - 10	8/24/1994	84	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	90	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	85	U
SB-08909	7.5 - 7.5	8/19/1994	87	U
SB-08909	10 - 10	8/19/1994	88	U
SB-08003	1.5 - 1.5	8/18/1994	77	U
SB-08003	8 - 8	8/18/1994	90	U
SB-08003	10 - 10	8/18/1994	86	U
SB-08004	3.5 - 3.5	8/18/1994	71	U
SB-08004	8 - 8	8/18/1994	73	U
SB-08004	12 - 12	8/18/1994	91	U
SB-08705	2.5 - 2.5	8/18/1994	73	U
SB-08705	5 - 5	8/18/1994	96	U
SB-08705	7.5 - 7.5	8/18/1994	88	U
SB-08924	2.5 - 2.5	8/18/1994	140	J
SB-08924	2.5 - 2.5	8/18/1994	360	J
SB-08924	7.5 - 7.5	8/18/1994	93	U
SB-08924	10 - 10	8/18/1994	86	U
SB-09102	1 - 1	8/16/1994	71	U
SB-09102	1 - 1	8/16/1994	72	U
SB-09102	5 - 5	8/16/1994	90	U
SB-09102	7.5 - 7.5	8/16/1994	93	U
SB-09103	2.5 - 2.5	8/16/1994	70	U
SB-09103	7.5 - 7.5	8/16/1994	96	U
SB-09103	10 - 10	8/16/1994	86	U
SB-09104	1 - 1	8/16/1994	72	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1254 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-09104	7.5 - 7.5	8/16/1994	92	U
SB-09104	10 - 10	8/16/1994	87	U
SB-10401	10 - 10	3/15/1994	78	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	78	U
SB-08303	5 - 5	12/13/1993	65.6	U
SB-08903	5 - 5	12/13/1993	61.5	U
SB-08903	5 - 5	12/13/1993	64.1	U
SB-08901	5 - 5	12/11/1993	82	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66.2	U
PL2-111A	5 - 5	12/9/1993	81.3	U
SB-08602	1 - 1	12/9/1993	62.3	U
SB-08904	1 - 1	12/9/1993	65.1	U
SB-08904	5 - 5	12/9/1993	68.5	U
SB-28201	1 - 1	12/9/1993	62.9	U
SS-09101	0 - 0.5	11/29/1993	400	UIJ
SS-09112	0 - 0.5	11/29/1993	5300	UI
SS-09103	0 - 0.5	11/24/1993	80	U
SS-09111	0 - 0.5	11/23/1993	61	U
SS-09111	0 - 0.5	11/23/1993	80	U
SS-09104	0 - 0.5	11/22/1993	5600	UI
SS-09102	0 - 0.5	11/19/1993	6500	UI
SS-09109	0 - 0.5	11/19/1993	62	U
SS-09106	0 - 0.5	11/18/1993	80	U
SS-09108	0 - 0.5	11/17/1993	2100	UI
SS-09110	0 - 0.5	11/17/1993	62	UJ
SS-09105	0 - 0.5	11/16/1993	81000	
SS-09107	0 - 0.5	11/16/1993	3400	UI
PL2-301A	5 - 5	7/8/1992	80	U
PL2-301A	10 - 10	7/8/1992	80	U
PL2-302A	5 - 5	7/8/1992	80	U
PL2-302A	10 - 10	7/8/1992	80	U
PL2-303A	5 - 5	7/8/1992	80	U
PL2-303A	10 - 10	7/8/1992	80	U
PL2-303A	10 - 10	7/8/1992	80	U
PL2-109B	9 - 9	7/7/1992	15	U
PL2-109C	6 - 6	7/6/1992	15	U
PL2-109C	9 - 9	7/6/1992	15	U
PL2-105C	3 - 3	6/25/1992	15	U
PL2-105C	10 - 10	6/25/1992	15	U
PL2-104B	6 - 6	6/24/1992	15	U
PL2-104B	11 - 11	6/24/1992	15	U
PL2-110C	6 - 6	6/22/1992	15	U
PL2-110C	9 - 9	6/22/1992	15	U
PL2-106C	7 - 7	6/18/1992	15	U
PL2-106C	12 - 12	6/18/1992	15	U

South Yard Area COC Results
Aroclor 1254 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1254 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
288-16	4 - 4	8/14/1991	60	U
288-17	4 - 4	8/14/1991	10000	U
288-18	4 - 4	8/14/1991	20	J
288-19	4 - 4	8/14/1991	260	
288-20	4 - 4	8/14/1991	60	U
288-21	4 - 4	8/14/1991	60	U
288-22	4 - 4	8/14/1991	60	U
288-23	4 - 4	8/14/1991	60	U
288-24	4 - 4	8/14/1991	60	U
288-13	2 - 2	8/13/1991	60	U
288-15	2 - 2	8/13/1991	60	U
SB291-3	9.5 - 9.5	1/12/1989	3000	U
SB291-4	9.5 - 9.5	1/12/1989	300	U
SB291-5	9.5 - 9.5	1/12/1989	300	U
SB291-6	2.5 - 7.5	1/12/1989	300	U
SB291-9	5 - 5	1/12/1989	50	U
SB291-10	10 - 10	1/11/1989	300	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Aroclor 1260 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1260 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	70	U
DP-SY-01	4 - 5	3/8/2005	33	U
DP-SY-01	9 - 10	3/8/2005	32	U
DP-SY-02	0 - 1	3/7/2005	140	
DP-SY-02	4 - 5	3/7/2005	33	U
DP-SY-02	9 - 10	3/7/2005	32	U
DP-SY-03	0 - 1	3/7/2005	73	
DP-SY-03	4 - 5	3/7/2005	32	U
DP-SY-03	9 - 10	3/7/2005	33	J
DP-SY-04	0 - 1	3/7/2005	210	
DP-SY-04	4 - 5	3/7/2005	45	
DP-SY-04	9 - 10	3/7/2005	33	U
DP-SY-05	0 - 1	3/7/2005	33	U
DP-SY-05	4 - 5	3/7/2005	32	U
DP-SY-05	9 - 10	3/7/2005	33	U
DP-SY-06	0 - 1	3/7/2005	77	J
DP-SY-06	4 - 5	3/7/2005	32	U
DP-SY-06	9 - 10	3/7/2005	32	U
DP-SY-07	0 - 1	3/7/2005	33	U
DP-SY-07	4 - 5	3/7/2005	33	U
DP-SY-07	9 - 10	3/7/2005	33	U
DP-SY-08	0 - 1	3/7/2005	41	
DP-SY-08	4 - 5	3/7/2005	32	U
DP-SY-08	9 - 10	3/7/2005	33	U
DP-SY-09	0 - 1	3/8/2005	33	U
DP-SY-09	4 - 5	3/8/2005	33	U
DP-SY-09	9 - 10	3/8/2005	33	U
DP-SY-10	0 - 1	3/8/2005	32	U
DP-SY-10	4 - 5	3/8/2005	33	U
DP-SY-10	9 - 10	3/8/2005	33	U
DP-SY-11	0 - 1	3/8/2005	33	U
DP-SY-11	4 - 5	3/8/2005	33	U
DP-SY-11	9 - 10	3/8/2005	33	U
DP-SY-12	0 - 1	3/8/2005	33	U
DP-SY-12	4 - 5	3/8/2005	33	U
DP-SY-12	9 - 10	3/8/2005	32	U
PL2-601A	0 - 1.5	3/1/2005	33	U
PL2-601A	3.5 - 5	3/1/2005	32	U
PL2-601A	8.5 - 10	3/1/2005	32	U
PL2-602A	0 - 1.5	3/1/2005	33	U
PL2-602A	3.5 - 5	3/1/2005	33	U
PL2-602A	8.5 - 10	3/1/2005	32	U
PL2-603A	0 - 1.5	2/28/2005	38	U
PL2-603A	3.5 - 5	2/28/2005	35	U
PL2-603A	8.5 - 10	2/28/2005	36	U
SB-08754	8 - 10	7/20/1999	45	U
SB-08752	3 - 5	6/21/1999	35	U
SB-08753	3 - 5	6/21/1999	35	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1260 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08744	8 - 8	6/4/1999	42	U
SB-08746	8 - 8	6/4/1999	45	U
SB-08747	9 - 9	6/4/1999	52	U
SB-08748	11 - 11	6/4/1999	44	U
SB-08743	11 - 11	6/3/1999	63	
SB-08738	10 - 10	5/28/1999	45	
SB-08741	3 - 3	5/28/1999	35	U
SB-08742	5 - 5	5/28/1999	44	Y
SB-08733	2.5 - 2.5	5/25/1999	36	U
SB-08734	5 - 5	5/25/1999	45	U
SB-08735	2.5 - 2.5	5/25/1999	36	U
SB-08736	2.5 - 2.5	5/25/1999	36	U
SB-08737	5 - 5	5/25/1999	45	U
SB-08941	8 - 8	5/25/1999	47	U
SB-08942	11 - 11	5/25/1999	45	U
SB-08943	11 - 11	5/25/1999	44	U
SB-08944	11 - 11	5/25/1999	44	U
SB-08945	8 - 8	5/25/1999	47	U
SB-08728	3 - 3	5/18/1999	170	Y
SB-08729	3 - 3	5/18/1999	44	Y
SB-08730	3 - 3	5/18/1999	150	Y
SB-08731	3 - 3	5/18/1999	110	
SB-08732	3 - 3	5/18/1999	150	Y
SB-08716	3 - 5	11/25/1998	42	U
SB-08716	8 - 10	11/25/1998	45	U
SB-08717	3 - 5	11/25/1998	39	U
SB-08717	8 - 10	11/25/1998	43	U
SB-08718	3 - 5	11/25/1998	42	U
SB-08718	8 - 10	11/25/1998	43	U
SB-08719	3 - 5	11/25/1998	42	U
SB-08719	8 - 10	11/25/1998	42	U
SB-08720	3 - 5	11/25/1998	40	U
SB-08720	8 - 10	11/25/1998	44	U
SB-08721	3 - 5	11/25/1998	42	U
SB-08721	8 - 10	11/25/1998	44	U
SB-08722	3 - 5	11/25/1998	43	U
SB-08722	8 - 10	11/25/1998	45	U
SB-08723	3 - 5	11/25/1998	39	U
SB-08723	8 - 10	11/25/1998	43	U
SB-08724	3 - 5	11/25/1998	37	U
SB-08724	8 - 10	11/25/1998	46	U
SB-08930	3 - 5	11/24/1998	36	U
SB-08930	8 - 10	11/24/1998	42	U
SB-08931	3 - 5	11/24/1998	41	U
SB-08931	8 - 10	11/24/1998	41	U
SB-08932	3 - 5	11/24/1998	43	U
SB-08932	8 - 10	11/24/1998	43	U
SB-08933	3 - 5	11/24/1998	40	U

South Yard Area COC Results
Aroclor 1260 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1260 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08933	8 - 10	11/24/1998	41	U
SB-08934	3 - 5	11/24/1998	38	U
SB-08934	8 - 10	11/24/1998	41	U
SB-08935	3 - 5	11/24/1998	39	U
SB-08935	8 - 10	11/24/1998	44	U
SB-08936	3 - 5	11/24/1998	39	U
SB-08936	8 - 10	11/24/1998	43	U
SB-08937	3 - 5	11/24/1998	39	U
SB-08937	8 - 10	11/24/1998	46	U
SB-08938	3 - 5	11/24/1998	37	U
SB-08938	8 - 10	11/24/1998	40	U
SB-08939	3 - 5	11/24/1998	37	U
SB-08939	8 - 10	11/24/1998	41	U
SB-08940	3 - 5	11/24/1998	39	U
SB-08940	8 - 10	11/24/1998	41	U
SB-08714	2 - 2	9/22/1995	42	U
SB-08714	7 - 7	9/22/1995	48	U
SB-08714	10 - 10	9/22/1995	43	U
SB-08715	2 - 2	9/22/1995	39	U
SB-08715	2 - 2	9/22/1995	36	U
SB-08715	7 - 7	9/22/1995	50	U
SB-08715	9.5 - 9.5	9/22/1995	44	U
SB-08310	2 - 2	8/25/1995	40	U
SB-08310	7 - 7	8/25/1995	44	U
SB-08310	9 - 9	8/25/1995	42	U
SB-08311	2 - 2	8/25/1995	38	U
SB-08311	7 - 7	8/25/1995	43	U
SB-08311	9 - 9	8/25/1995	43	U
SB-08312	2 - 2	8/25/1995	37	U
SB-08312	7 - 7	8/25/1995	44	U
SB-08312	9 - 9	8/25/1995	42	U
SB-08307	1.5 - 1.5	7/31/1995	37	U
SB-08307	5 - 5	7/31/1995	37	U
SB-08307	7.5 - 7.5	7/31/1995	44	U
SB-08308	1.5 - 1.5	7/28/1995	37	U
SB-08308	5 - 5	7/28/1995	42	U
SB-08308	7.5 - 7.5	7/28/1995	44	U
SB-08309	9 - 9	7/28/1995	44	U
SB-08711	2 - 2	7/24/1995	37	U
SB-08711	7 - 7	7/24/1995	47	U
SB-08711	10 - 10	7/24/1995	43	U
SB-08712	2 - 2	7/24/1995	36	U
SB-08712	6.5 - 6.5	7/24/1995	47	U
SB-08712	8.5 - 8.5	7/24/1995	46	U
SB-08709	6 - 6	2/24/1995	45	U
SB-08709	7 - 7	2/24/1995	56	U
SB-08709	10.5 - 10.5	2/24/1995	43	U
SB-08710	6 - 6	2/24/1995	46	U

South Yard Area COC Results
Aroclor 1260 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1260 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-08710	8 - 8	2/24/1995	44	U
SB-08710	11 - 11	2/24/1995	43	U
SB-08305	1 - 1	2/22/1995	37	U
SB-08305	5 - 5	2/22/1995	41	U
SB-08009	0.6 - 0.6	2/16/1995	36	U
SB-08009	6 - 6	2/16/1995	39	U
SB-08010	0.5 - 0.5	2/16/1995	36	U
SB-08010	6 - 6	2/16/1995	44	U
SB-11001	6 - 6	9/12/1994	90	U
SB-11001	9.5 - 9.5	9/12/1994	90	U
SB-08301	1.5 - 1.5	9/3/1994	74	U
SB-08301	4.5 - 4.5	9/3/1994	92	U
SB-08301	11.5 - 11.5	9/3/1994	85	U
SB-08302	2 - 2	9/3/1994	74	U
SB-08302	5 - 5	9/3/1994	86	U
SB-08302	11 - 11	9/3/1994	87	U
SB-08706	7.5 - 7.5	8/25/1994	84	UJH
SB-08706	10 - 10	8/25/1994	87	U
SB-08905	5 - 5	8/24/1994	89	U
SB-08905	7.5 - 7.5	8/24/1994	75	U
SB-08905	10 - 10	8/24/1994	84	U
SB-08917	1 - 1	8/23/1994	68	U
SB-08917	7.5 - 7.5	8/23/1994	90	U
SB-08917	10 - 10	8/23/1994	87	U
SB-08909	5 - 5	8/19/1994	85	U
SB-08909	7.5 - 7.5	8/19/1994	87	U
SB-08909	10 - 10	8/19/1994	88	U
SB-08003	1.5 - 1.5	8/18/1994	77	U
SB-08003	8 - 8	8/18/1994	52	J
SB-08003	10 - 10	8/18/1994	86	U
SB-08004	3.5 - 3.5	8/18/1994	71	U
SB-08004	8 - 8	8/18/1994	73	U
SB-08004	12 - 12	8/18/1994	91	U
SB-08705	2.5 - 2.5	8/18/1994	73	U
SB-08705	5 - 5	8/18/1994	96	U
SB-08705	7.5 - 7.5	8/18/1994	88	U
SB-08924	2.5 - 2.5	8/18/1994	70	U
SB-08924	2.5 - 2.5	8/18/1994	70	U
SB-08924	7.5 - 7.5	8/18/1994	93	U
SB-08924	10 - 10	8/18/1994	86	U
SB-09102	1 - 1	8/16/1994	71	U
SB-09102	1 - 1	8/16/1994	72	U
SB-09102	5 - 5	8/16/1994	90	U
SB-09102	7.5 - 7.5	8/16/1994	93	U
SB-09103	2.5 - 2.5	8/16/1994	70	U
SB-09103	7.5 - 7.5	8/16/1994	96	U
SB-09103	10 - 10	8/16/1994	86	U
SB-09104	1 - 1	8/16/1994	72	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1260 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
SB-09104	7.5 - 7.5	8/16/1994	92	U
SB-09104	10 - 10	8/16/1994	87	U
SB-10401	10 - 10	3/15/1994	78	U
SB-08201	6.5 - 6.5	12/21/1993	74	U
SB-08201	8 - 8	12/21/1993	63	U
SB-08201	11 - 11	12/21/1993	78	U
SB-08303	5 - 5	12/13/1993	65.6	U
SB-08903	5 - 5	12/13/1993	61.5	U
SB-08903	5 - 5	12/13/1993	64.1	U
SB-08901	5 - 5	12/11/1993	82	U
SB-08901	7.5 - 7.5	12/11/1993	80	U
PL2-111A	1 - 1	12/9/1993	66.2	U
PL2-111A	5 - 5	12/9/1993	81.3	U
SB-08602	1 - 1	12/9/1993	62.3	U
SB-08904	1 - 1	12/9/1993	65.1	U
SB-08904	5 - 5	12/9/1993	68.5	U
SB-28201	1 - 1	12/9/1993	62.9	U
SS-09101	0 - 0.5	11/29/1993	80	UJ
SS-09112	0 - 0.5	11/29/1993	5300	UI
SS-09103	0 - 0.5	11/24/1993	87	
SS-09111	0 - 0.5	11/23/1993	63	J
SS-09111	0 - 0.5	11/23/1993	74	J
SS-09104	0 - 0.5	11/22/1993	6000	UI
SS-09102	0 - 0.5	11/19/1993	2700	UI
SS-09109	0 - 0.5	11/19/1993	62	U
SS-09106	0 - 0.5	11/18/1993	80	U
SS-09108	0 - 0.5	11/17/1993	5000	UI
SS-09110	0 - 0.5	11/17/1993	79	J
SS-09105	0 - 0.5	11/16/1993	24000	UI
SS-09107	0 - 0.5	11/16/1993	4100	UI
PL2-301A	5 - 5	7/8/1992	80	U
PL2-301A	10 - 10	7/8/1992	80	U
PL2-302A	5 - 5	7/8/1992	80	U
PL2-302A	10 - 10	7/8/1992	80	U
PL2-303A	5 - 5	7/8/1992	80	U
PL2-303A	10 - 10	7/8/1992	80	U
PL2-303A	10 - 10	7/8/1992	80	U
PL2-109B	9 - 9	7/7/1992	15	U
PL2-109C	6 - 6	7/6/1992	15	U
PL2-109C	9 - 9	7/6/1992	15	U
PL2-105C	3 - 3	6/25/1992	15	U
PL2-105C	10 - 10	6/25/1992	15	U
PL2-104B	6 - 6	6/24/1992	15	U
PL2-104B	11 - 11	6/24/1992	15	U
PL2-110C	6 - 6	6/22/1992	15	U
PL2-110C	9 - 9	6/22/1992	15	U
PL2-106C	7 - 7	6/18/1992	15	U
PL2-106C	12 - 12	6/18/1992	15	U

South Yard Area COC Results
Aroclor 1260 Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Aroclor 1260 (µg/kg) - 2004 Screening Level = 33 µg/kg; PMCL = 33 µg/kg[3]				
288-16	4 - 4	8/14/1991	60	U
288-17	4 - 4	8/14/1991	10000	U
288-18	4 - 4	8/14/1991	60	U
288-19	4 - 4	8/14/1991	260	
288-20	4 - 4	8/14/1991	60	U
288-21	4 - 4	8/14/1991	60	U
288-22	4 - 4	8/14/1991	60	U
288-23	4 - 4	8/14/1991	60	U
288-24	4 - 4	8/14/1991	60	U
288-13	2 - 2	8/13/1991	60	U
288-15	2 - 2	8/13/1991	60	U
SB291-3	9.5 - 9.5	1/12/1989	3000	U
SB291-4	9.5 - 9.5	1/12/1989	300	U
SB291-5	9.5 - 9.5	1/12/1989	300	U
SB291-6	2.5 - 7.5	1/12/1989	300	U
SB291-9	5 - 5	1/12/1989	50	U
SB291-10	10 - 10	1/11/1989	300	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzene (µg/kg) - 2004 Soil Screening Level = 25.3 µg/kg; PMCL = 4,300 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	1.2	U
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	1	U
DP-SY-03	0 - 1	3/7/2005	1.3	U
DP-SY-03	4 - 5	3/7/2005	1.1	U
DP-SY-03	9 - 10	3/7/2005	1	U
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	1.4	U
DP-SY-05	0 - 1	3/7/2005	1	U
DP-SY-05	4 - 5	3/7/2005	1.2	U
DP-SY-05	9 - 10	3/7/2005	1.3	U
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.1	U
DP-SY-10	4 - 5	3/8/2005	1.1	U
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	1.1	U
DP-SY-11	4 - 5	3/8/2005	1.1	U
DP-SY-11	9 - 10	3/8/2005	1.4	U
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	1.2	U
PL2-601A	0 - 1.5	3/1/2005	1	U
PL2-601A	3.5 - 5	3/1/2005	1	U
PL2-601A	8.5 - 10	3/1/2005	1.2	U
PL2-602A	0 - 1.5	3/1/2005	1	U
PL2-602A	3.5 - 5	3/1/2005	1.1	U
PL2-602A	8.5 - 10	3/1/2005	12	
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzene (µg/kg) - 2004 Soil Screening Level = 25.3 µg/kg; PMCL = 4,300 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08716	3 - 5	11/25/1998	1.4	U
SB-08716	8 - 10	11/25/1998	1.4	U
SB-08717	3 - 5	11/25/1998	1.3	U
SB-08717	8 - 10	11/25/1998	1.4	U
SB-08718	3 - 5	11/25/1998	1.3	U
SB-08718	8 - 10	11/25/1998	1.3	U
SB-08719	3 - 5	11/25/1998	1.1	U
SB-08719	8 - 10	11/25/1998	1.3	U
SB-08720	3 - 5	11/25/1998	1.3	U
SB-08720	8 - 10	11/25/1998	1.3	U
SB-08721	3 - 5	11/25/1998	1.3	U
SB-08721	8 - 10	11/25/1998	1.3	U
SB-08722	3 - 5	11/25/1998	1.3	U
SB-08722	8 - 10	11/25/1998	1.4	U
SB-08723	3 - 5	11/25/1998	1.2	U
SB-08723	8 - 10	11/25/1998	1.3	U
SB-08724	3 - 5	11/25/1998	1.1	U
SB-08724	8 - 10	11/25/1998	1.5	U
SB-08930	3 - 5	11/24/1998	1.1	U
SB-08930	8 - 10	11/24/1998	1.2	U
SB-08931	3 - 5	11/24/1998	1.1	U
SB-08931	8 - 10	11/24/1998	1.2	U
SB-08932	3 - 5	11/24/1998	1.1	U
SB-08932	8 - 10	11/24/1998	1.2	U
SB-08933	3 - 5	11/24/1998	1.2	U
SB-08933	8 - 10	11/24/1998	1.2	U
SB-08934	3 - 5	11/24/1998	1.2	U
SB-08934	8 - 10	11/24/1998	8.8	U
SB-08935	3 - 5	11/24/1998	1.1	U
SB-08935	8 - 10	11/24/1998	1.4	
SB-08936	3 - 5	11/24/1998	1.1	U
SB-08936	8 - 10	11/24/1998	1.3	U
SB-08937	3 - 5	11/24/1998	1.2	U
SB-08937	8 - 10	11/24/1998	1.3	U
SB-08938	3 - 5	11/24/1998	1.1	U
SB-08938	8 - 10	11/24/1998	1.2	U
SB-08939	3 - 5	11/24/1998	1.2	U
SB-08939	8 - 10	11/24/1998	1.3	U
SB-08940	3 - 5	11/24/1998	1.1	U
SB-08940	8 - 10	11/24/1998	1.3	U
SB-08022	10 - 11	3/19/1998	1.4	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzene (µg/kg) - 2004 Soil Screening Level = 25.3 µg/kg; PMCL = 4,300 µg/kg[3]				
SB-08020	10 - 11	3/18/1998	1.2	U
SB-08021	9 - 10	3/18/1998	1.2	U
SB-08009	0.6 - 0.6	2/16/1995	1.1	U
SB-08009	6 - 6	2/16/1995	1.2	U
SB-08010	0.5 - 0.5	2/16/1995	1	U
SB-08010	6 - 6	2/16/1995	1.3	U
SB-08008	3.5 - 3.5	2/15/1995	1.1	U
SB-08008	6.5 - 6.5	2/15/1995	1.1	U
SB-08008	11.5 - 11.5	2/15/1995	1.3	U
SB-08005	11 - 11	9/22/1994	9.3	
SB-08604	1.5 - 1.5	9/19/1994	1.1	U
SB-08604	6 - 6	9/19/1994	1.3	U
SB-08604	9 - 9	9/19/1994	1.3	U
SB-08301	1.5 - 1.5	9/3/1994	1.2	U
SB-08301	4.5 - 4.5	9/3/1994	1.5	U
SB-08301	11.5 - 11.5	9/3/1994	1.3	U
SB-08302	2 - 2	9/3/1994	1.1	U
SB-08302	5 - 5	9/3/1994	1.3	U
SB-08302	11 - 11	9/3/1994	1.3	U
SB-08905	5 - 5	8/24/1994	1.3	U
SB-08905	7.5 - 7.5	8/24/1994	1.1	U
SB-08905	10 - 10	8/24/1994	1.2	U
SB-08917	1 - 1	8/23/1994	1	U
SB-08917	7.5 - 7.5	8/23/1994	5	
SB-08917	10 - 10	8/23/1994	4	
SB-08920	1 - 1	8/23/1994	1	U
SB-08920	7.5 - 7.5	8/23/1994	1.2	U
SB-08920	10 - 10	8/23/1994	1.3	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	5 - 5	8/19/1994	1.2	U
SB-08922	10 - 10	8/19/1994	1.3	U
SB-08919	2.5 - 2.5	8/18/1994	1.1	U
SB-08919	7.5 - 7.5	8/18/1994	1.3	U
SB-08919	10 - 10	8/18/1994	1.2	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	7.5 - 7.5	8/18/1994	7.3	
SB-08924	10 - 10	8/18/1994	5	
SB-08915	2 - 2	8/17/1994	1.1	U
SB-08915	5 - 5	8/17/1994	1.1	U
SB-08915	7.5 - 7.5	8/17/1994	2.5	
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	5 - 5	8/16/1994	1.4	U
SB-09102	7.5 - 7.5	8/16/1994	1.4	U
SB-09103	2.5 - 2.5	8/16/1994	1	U
SB-09103	7.5 - 7.5	8/16/1994	1.4	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzene (µg/kg) - 2004 Soil Screening Level = 25.3 µg/kg; PMCL = 4,300 µg/kg[3]				
SB-09103	10 - 10	8/16/1994	1.3	U
SB-09104	1 - 1	8/16/1994	1	U
SB-09104	7.5 - 7.5	8/16/1994	37	
SB-09104	10 - 10	8/16/1994	7.6	
SB-10401	10 - 10	3/15/1994	150	U
SB-08201	6.5 - 6.5	12/21/1993	1.1	U
SB-08201	8 - 8	12/21/1993	1.3	U
SB-08201	11 - 11	12/21/1993	1.3	U
SB-08601	1.5 - 1.5	12/20/1993	1.1	U
SB-08601	7 - 7	12/20/1993	1.1	U
SB-08601	11 - 11	12/20/1993	1.3	U
SB-08303	5 - 5	12/13/1993	1.3	U
SB-08903	7.5 - 7.5	12/13/1993	1.2	U
SB-08901	5 - 5	12/11/1993	1.4	U
SB-08901	7.5 - 7.5	12/11/1993	1.3	U
PL2-111A	1 - 1	12/9/1993	1.1	U
PL2-111A	7.5 - 7.5	12/9/1993	1.3	U
SB-08602	1 - 1	12/9/1993	1	U
SB-08602	7.5 - 7.5	12/9/1993	1.5	U
SB-08904	1 - 1	12/9/1993	1.1	U
SB-08904	7.5 - 7.5	12/9/1993	1.3	U
SB-28201	1 - 1	12/9/1993	1.2	U
SB-28201	7.5 - 7.5	12/9/1993	1.1	U
SS-09101	0 - 0.5	11/29/1993	1.2	U
SS-09112	0 - 0.5	11/29/1993	160	U
SS-09103	0 - 0.5	11/24/1993	1.1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09104	0 - 0.5	11/22/1993	340	U
SS-09102	0 - 0.5	11/19/1993	1.1	U
SS-09109	0 - 0.5	11/19/1993	1.1	U
SS-09106	0 - 0.5	11/18/1993	1.2	U
SS-09108	0 - 0.5	11/17/1993	1	U
SS-09110	0 - 0.5	11/17/1993	1.1	U
SS-09105	0 - 0.5	11/16/1993	1.2	U
SS-09107	0 - 0.5	11/16/1993	4.1	U
EX-1	8 - 8	10/23/1992	49000	
EX-3	8 - 8	10/23/1992	1900	
EX-5	10.5 - 10.5	10/23/1992	280	
PL2-301A	5 - 5	7/8/1992	1.3	U
PL2-301A	10 - 10	7/8/1992	1.2	U
PL2-302A	5 - 5	7/8/1992	0.8	J
PL2-302A	10 - 10	7/8/1992	1.3	U
PL2-303A	5 - 5	7/8/1992	1.2	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-109B	9 - 9	7/7/1992	1.3	U
PL2-109C	6 - 6	7/6/1992	1.2	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzene (µg/kg) - 2004 Soil Screening Level = 25.3 µg/kg; PMCL = 4,300 µg/kg[3]				
PL2-109C	9 - 9	7/6/1992	1.3	U
PL2-105C	3 - 3	6/25/1992	1	U
PL2-105C	10 - 10	6/25/1992	1.9	
PL2-104B	6 - 6	6/24/1992	1.4	U
PL2-104B	11 - 11	6/24/1992	1.3	U
PL2-110C	6 - 6	6/22/1992	1.1	U
PL2-110C	9 - 9	6/22/1992	160	U
PL2-106C	7 - 7	6/18/1992	1.4	U
PL2-106C	12 - 12	6/18/1992	1.4	U
HA-284-03	2 - 2.5	4/27/1992	1	U
HA-284-03	4 - 4.5	4/27/1992	1.7	U
SB-284-01	4 - 4.5	4/27/1992	1.1	U
SB-284-01	8 - 8.5	4/27/1992	1.4	U
SB-284-02	4 - 4.5	4/27/1992	1.2	U
SB-284-02	6 - 6.5	4/27/1992	1.2	U
PL31-B1	9 - 9	3/24/1992	1.4	U
PL31-B2	8.5 - 8.5	3/24/1992	1.1	U
PL31-P1	1.8 - 1.8	3/24/1992	1	U
PL31-S1	4.6 - 4.6	3/24/1992	1.1	U
PL31-S2	5 - 5	3/24/1992	1	U
PL31-S3	5.5 - 5.5	3/24/1992	1	U
PL31-S4	5.9 - 5.9	3/24/1992	1	U
PL66-B1	5.5 - 5.5	10/28/1991	1.1	U
PL66-B1	10.5 - 10.5	10/28/1991	1.3	U
PL66-B2	5.5 - 5.5	10/28/1991	1.2	U
PL66-B2	10.5 - 10.5	10/28/1991	1.3	U
SB116-B1	5 - 5	9/13/1991	1.2	U
SB116-B1	8 - 8	9/13/1991	1.4	U
SB116-B1	9.5 - 9.5	9/13/1991	1.3	U
SB116-B2	2 - 2	9/13/1991	1	U
SB116-B2	7 - 7	9/13/1991	1.1	U
SB116-B2	12 - 12	9/13/1991	1.3	U
SB116-B3	2 - 2	9/13/1991	1.4	U
SB116-B3	7 - 7	9/13/1991	1.1	J
SB116-B3	12 - 12	9/13/1991	1.3	U
288-16	4 - 4	8/14/1991	1	U
288-17	4 - 4	8/14/1991	1	U
288-18	4 - 4	8/14/1991	1.1	U
288-19	4 - 4	8/14/1991	1	U
288-20	4 - 4	8/14/1991	1	U
288-21	4 - 4	8/14/1991	1	U
288-22	4 - 4	8/14/1991	1.1	U
288-23	4 - 4	8/14/1991	1.1	U
288-24	4 - 4	8/14/1991	1	U
288-1	3 - 3	8/13/1991	1.1	U
288-1	8 - 8	8/13/1991	5.8	
288-10	1.5 - 1.5	8/13/1991	1.2	U
288-11	0.5 - 0.5	8/13/1991	1.2	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzene (µg/kg) - 2004 Soil Screening Level = 25.3 µg/kg; PMCL = 4,300 µg/kg[3]				
288-12	0.5 - 0.5	8/13/1991	1	U
288-14	3 - 3	8/13/1991	1.2	U
288-14	8 - 8	8/13/1991	1.3	U
288-2	3 - 3	8/13/1991	1	U
288-2	8 - 8	8/13/1991	17	
288-3	3 - 3	8/13/1991	1	U
288-4	3 - 3	8/13/1991	670	U
288-5	1 - 1	8/13/1991	1400	U
288-5	3 - 3	8/13/1991	1300	U
288-6	1 - 1	8/13/1991	5.3	U
288-6	3 - 3	8/13/1991	10	U
288-7	3 - 3	8/13/1991	1.1	U
288-8	3 - 3	8/13/1991	1	U
288-8	8 - 8	8/13/1991	2.8	
288-9	1.5 - 1.5	8/13/1991	1.2	U
PL2-115A	2 - 2	7/27/1989	1.1	U
PL2-115A	5 - 5	7/27/1989	1.3	U
PL2-115A	8.5 - 8.5	7/27/1989	6.6	
PL2-115A	10 - 10	7/27/1989	5.1	
PL2-116A	2 - 2	7/26/1989	1	U
PL2-116A	5 - 5	7/26/1989	1.2	U
PL2-116A	8.5 - 8.5	7/26/1989	1.2	U
PL2-116A	10 - 10	7/26/1989	1.2	U
SB291-16	2 - 2	7/26/1989	1	U
SB291-16	5 - 5	7/26/1989	5.2	U
SB291-16	9.5 - 9.5	7/26/1989	1.3	U
SB291-17	2 - 2	7/26/1989	1	U
SB291-17	5 - 5	7/26/1989	1.3	U
SB291-17	9.5 - 9.5	7/26/1989	1.3	U
SB297-2	2 - 2	7/25/1989	1	U
SB297-2	5 - 5	7/25/1989	1.1	U
SB297-2	10.5 - 10.5	7/25/1989	1.4	U
SB297-3	2 - 2	7/25/1989	1	U
SB297-3	5 - 5	7/25/1989	1.3	U
SB297-3	9.5 - 9.5	7/25/1989	1.3	U
SB291-3	2.5 - 2.5	1/12/1989	21	U
SB291-3	7.5 - 7.5	1/12/1989	280	U
SB291-3	9.5 - 9.5	1/12/1989	6.3	U
SB291-4	5 - 5	1/12/1989	2	U
SB291-5	5 - 5	1/12/1989	2.8	U
SB291-6	2.5 - 7.5	1/12/1989	22	U
SB291-9	2.5 - 2.5	1/12/1989	2.3	U
SB291-9	5 - 5	1/12/1989	4.8	U
SB291-9	9.5 - 9.5	1/12/1989	33	
PL2-117A	7.5 - 7.5	1/11/1989	380	U
SB291-10	2.5 - 2.5	1/11/1989	2.2	U
SB291-8	5 - 5	1/11/1989	140	U
SB291-8	10 - 10	1/11/1989	140	U

South Yard Area COC Results
Benzene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Benzene (µg/kg) - 2004 Soil Screening Level = 25.3 µg/kg; PMCL = 4,300 µg/kg[3]				
PL2-112A	5.5 - 5.5	1/10/1989	4.2	U
PL2-114A	8 - 8	1/10/1989	4.9	
PL2-114A	10.5 - 10.5	1/10/1989	140	U
PL2-101A	11 - 11	10/28/1985	5	U
PL2-103A	4 - 4	10/28/1985	5	U
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999)

South Yard Area COC Results
1,1-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1-Dichloroethene (µg/kg) - 2004 Screening Level = 2.73 µg/kg; PMCL = 190 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	1.2	U
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	1	U
DP-SY-03	0 - 1	3/7/2005	1.3	U
DP-SY-03	4 - 5	3/7/2005	1.1	U
DP-SY-03	9 - 10	3/7/2005	1	U
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	1.4	U
DP-SY-05	0 - 1	3/7/2005	1	U
DP-SY-05	4 - 5	3/7/2005	1.2	U
DP-SY-05	9 - 10	3/7/2005	1.3	U
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.1	U
DP-SY-10	4 - 5	3/8/2005	1.1	U
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	1.1	U
DP-SY-11	4 - 5	3/8/2005	1.1	U
DP-SY-11	9 - 10	3/8/2005	1.4	U
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	1.2	U
PL2-601A	0 - 1.5	3/1/2005	1	U
PL2-601A	3.5 - 5	3/1/2005	1	U
PL2-601A	8.5 - 10	3/1/2005	1.2	U
PL2-602A	0 - 1.5	3/1/2005	1	U
PL2-602A	3.5 - 5	3/1/2005	1.1	U
PL2-602A	8.5 - 10	3/1/2005	1.4	U
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1-Dichloroethene (µg/kg) - 2004 Screening Level = 2.73 µg/kg; PMCL = 190 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08716	3 - 5	11/25/1998	1.4	U
SB-08716	8 - 10	11/25/1998	1.4	U
SB-08717	3 - 5	11/25/1998	1.3	U
SB-08717	8 - 10	11/25/1998	1.4	U
SB-08718	3 - 5	11/25/1998	1.3	U
SB-08718	8 - 10	11/25/1998	1.3	U
SB-08719	3 - 5	11/25/1998	1.1	U
SB-08719	8 - 10	11/25/1998	1.3	U
SB-08720	3 - 5	11/25/1998	1.3	U
SB-08720	8 - 10	11/25/1998	1.3	U
SB-08721	3 - 5	11/25/1998	1.3	U
SB-08721	8 - 10	11/25/1998	1.3	U
SB-08722	3 - 5	11/25/1998	1.3	U
SB-08722	8 - 10	11/25/1998	1.4	U
SB-08723	3 - 5	11/25/1998	1.2	U
SB-08723	8 - 10	11/25/1998	1.3	U
SB-08724	3 - 5	11/25/1998	1.1	U
SB-08724	8 - 10	11/25/1998	1.5	U
SB-08930	3 - 5	11/24/1998	1.1	U
SB-08930	8 - 10	11/24/1998	1.2	U
SB-08931	3 - 5	11/24/1998	1.1	U
SB-08931	8 - 10	11/24/1998	1.2	U
SB-08932	3 - 5	11/24/1998	1.1	U
SB-08932	8 - 10	11/24/1998	1.2	U
SB-08933	3 - 5	11/24/1998	1.2	U
SB-08933	8 - 10	11/24/1998	1.2	U
SB-08934	3 - 5	11/24/1998	1.2	U
SB-08934	8 - 10	11/24/1998	8.8	U
SB-08935	3 - 5	11/24/1998	1.1	U
SB-08935	8 - 10	11/24/1998	1.3	U
SB-08936	3 - 5	11/24/1998	1.1	U
SB-08936	8 - 10	11/24/1998	1.3	U
SB-08937	3 - 5	11/24/1998	1.2	U
SB-08937	8 - 10	11/24/1998	1.3	U
SB-08938	3 - 5	11/24/1998	1.1	U
SB-08938	8 - 10	11/24/1998	1.2	U
SB-08939	3 - 5	11/24/1998	1.2	U
SB-08939	8 - 10	11/24/1998	1.3	U
SB-08940	3 - 5	11/24/1998	1.1	U
SB-08940	8 - 10	11/24/1998	1.3	U
SB-08022	10 - 11	3/19/1998	1.4	U

South Yard Area COC Results
1,1-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1-Dichloroethene (µg/kg) - 2004 Screening Level = 2.73 µg/kg; PMCL = 190 µg/kg[3]				
SB-08020	10 - 11	3/18/1998	1.2	U
SB-08021	9 - 10	3/18/1998	1.2	U
SB-08009	0.6 - 0.6	2/16/1995	1.1	U
SB-08009	6 - 6	2/16/1995	1.2	U
SB-08010	0.5 - 0.5	2/16/1995	1	U
SB-08010	6 - 6	2/16/1995	1.3	U
SB-08008	3.5 - 3.5	2/15/1995	1.1	U
SB-08008	6.5 - 6.5	2/15/1995	1.1	U
SB-08008	11.5 - 11.5	2/15/1995	1.3	U
SB-08005	11 - 11	9/22/1994	1.3	U
SB-08604	1.5 - 1.5	9/19/1994	1.1	U
SB-08604	6 - 6	9/19/1994	1.3	U
SB-08604	9 - 9	9/19/1994	1.3	U
SB-08301	1.5 - 1.5	9/3/1994	1.2	U
SB-08301	4.5 - 4.5	9/3/1994	1.5	U
SB-08301	11.5 - 11.5	9/3/1994	1.3	U
SB-08302	2 - 2	9/3/1994	1.1	U
SB-08302	5 - 5	9/3/1994	1.3	U
SB-08302	11 - 11	9/3/1994	1.3	U
SB-08905	5 - 5	8/24/1994	1.3	U
SB-08905	7.5 - 7.5	8/24/1994	1.1	U
SB-08905	10 - 10	8/24/1994	1.2	U
SB-08917	1 - 1	8/23/1994	1	U
SB-08917	7.5 - 7.5	8/23/1994	1.3	U
SB-08917	10 - 10	8/23/1994	1.3	U
SB-08920	1 - 1	8/23/1994	1	U
SB-08920	7.5 - 7.5	8/23/1994	1.2	U
SB-08920	10 - 10	8/23/1994	1.3	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	5 - 5	8/19/1994	1.2	U
SB-08922	10 - 10	8/19/1994	1.3	U
SB-08919	2.5 - 2.5	8/18/1994	1.1	U
SB-08919	7.5 - 7.5	8/18/1994	1.3	U
SB-08919	10 - 10	8/18/1994	1.2	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	7.5 - 7.5	8/18/1994	1.4	U
SB-08924	10 - 10	8/18/1994	1.3	U
SB-08915	2 - 2	8/17/1994	1.1	U
SB-08915	5 - 5	8/17/1994	1.1	U
SB-08915	7.5 - 7.5	8/17/1994	11	
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	5 - 5	8/16/1994	1.4	U
SB-09102	7.5 - 7.5	8/16/1994	1.4	U
SB-09103	2.5 - 2.5	8/16/1994	1	U
SB-09103	7.5 - 7.5	8/16/1994	1.4	U

South Yard Area COC Results
1,1-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1-Dichloroethene (µg/kg) - 2004 Screening Level = 2.73 µg/kg; PMCL = 190 µg/kg[3]				
SB-09103	10 - 10	8/16/1994	1.3	U
SB-09104	1 - 1	8/16/1994	1	U
SB-09104	7.5 - 7.5	8/16/1994	5.6	
SB-09104	10 - 10	8/16/1994	1.3	U
SB-10401	10 - 10	3/15/1994	150	U
SB-08201	6.5 - 6.5	12/21/1993	1.1	U
SB-08201	8 - 8	12/21/1993	1.3	U
SB-08201	11 - 11	12/21/1993	1.3	U
SB-08601	1.5 - 1.5	12/20/1993	1.1	U
SB-08601	7 - 7	12/20/1993	1.1	U
SB-08601	11 - 11	12/20/1993	1.3	U
SB-08303	5 - 5	12/13/1993	1.3	U
SB-08903	7.5 - 7.5	12/13/1993	1.2	U
SB-08901	5 - 5	12/11/1993	1.4	U
SB-08901	7.5 - 7.5	12/11/1993	1.3	U
PL2-111A	1 - 1	12/9/1993	1.1	U
PL2-111A	7.5 - 7.5	12/9/1993	1.3	U
SB-08602	1 - 1	12/9/1993	1	U
SB-08602	7.5 - 7.5	12/9/1993	1.5	U
SB-08904	1 - 1	12/9/1993	1.1	U
SB-08904	7.5 - 7.5	12/9/1993	1.3	U
SB-28201	1 - 1	12/9/1993	1.2	U
SB-28201	7.5 - 7.5	12/9/1993	1.1	U
SS-09101	0 - 0.5	11/29/1993	1.2	U
SS-09112	0 - 0.5	11/29/1993	160	U
SS-09103	0 - 0.5	11/24/1993	1.1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09104	0 - 0.5	11/22/1993	340	U
SS-09102	0 - 0.5	11/19/1993	1.1	U
SS-09109	0 - 0.5	11/19/1993	1.1	U
SS-09106	0 - 0.5	11/18/1993	1.2	U
SS-09108	0 - 0.5	11/17/1993	1	U
SS-09110	0 - 0.5	11/17/1993	1.1	U
SS-09105	0 - 0.5	11/16/1993	1.2	U
SS-09107	0 - 0.5	11/16/1993	4.1	U
PL2-301A	5 - 5	7/8/1992	1.3	U
PL2-301A	10 - 10	7/8/1992	1.2	U
PL2-302A	5 - 5	7/8/1992	1	U
PL2-302A	10 - 10	7/8/1992	1.3	U
PL2-303A	5 - 5	7/8/1992	1.2	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-109B	9 - 9	7/7/1992	8.1	
PL2-109C	6 - 6	7/6/1992	1.2	U
PL2-109C	9 - 9	7/6/1992	1.3	U
PL2-105C	3 - 3	6/25/1992	1	U
PL2-105C	10 - 10	6/25/1992	1.3	U

South Yard Area COC Results
1,1-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1-Dichloroethene (µg/kg) - 2004 Screening Level = 2.73 µg/kg; PMCL = 190 µg/kg[3]				
PL2-104B	6 - 6	6/24/1992	1.4	U
PL2-104B	11 - 11	6/24/1992	1.3	U
PL2-110C	6 - 6	6/22/1992	1.1	U
PL2-110C	9 - 9	6/22/1992	160	U
PL2-106C	7 - 7	6/18/1992	1.4	J
PL2-106C	12 - 12	6/18/1992	1.4	U
HA-284-03	2 - 2.5	4/27/1992	1	U
HA-284-03	4 - 4.5	4/27/1992	1.7	U
SB-284-01	4 - 4.5	4/27/1992	1.1	U
SB-284-01	8 - 8.5	4/27/1992	1.4	U
SB-284-02	4 - 4.5	4/27/1992	1.2	U
SB-284-02	6 - 6.5	4/27/1992	1.2	U
PL31-B1	9 - 9	3/24/1992	1.4	U
PL31-B2	8.5 - 8.5	3/24/1992	1.1	U
PL31-P1	1.8 - 1.8	3/24/1992	1	U
PL31-S1	4.6 - 4.6	3/24/1992	1.1	U
PL31-S2	5 - 5	3/24/1992	1	U
PL31-S3	5.5 - 5.5	3/24/1992	1	U
PL31-S4	5.9 - 5.9	3/24/1992	1	U
PL66-B1	5.5 - 5.5	10/28/1991	2.2	U
PL66-B1	10.5 - 10.5	10/28/1991	2.5	U
PL66-B2	5.5 - 5.5	10/28/1991	2.4	U
PL66-B2	10.5 - 10.5	10/28/1991	2.6	U
SB116-B1	5 - 5	9/13/1991	2.4	U
SB116-B1	8 - 8	9/13/1991	2.8	U
SB116-B1	9.5 - 9.5	9/13/1991	2.6	U
SB116-B2	2 - 2	9/13/1991	2.1	U
SB116-B2	7 - 7	9/13/1991	2.3	U
SB116-B2	12 - 12	9/13/1991	2.6	U
SB116-B3	2 - 2	9/13/1991	2.8	U
SB116-B3	7 - 7	9/13/1991	2.8	U
SB116-B3	12 - 12	9/13/1991	2.6	U
288-16	4 - 4	8/14/1991	1	U
288-17	4 - 4	8/14/1991	1	U
288-18	4 - 4	8/14/1991	1.1	U
288-19	4 - 4	8/14/1991	1	U
288-20	4 - 4	8/14/1991	1	U
288-21	4 - 4	8/14/1991	1	U
288-22	4 - 4	8/14/1991	1.1	U
288-23	4 - 4	8/14/1991	1.1	U
288-24	4 - 4	8/14/1991	1	U
288-1	3 - 3	8/13/1991	2.1	U
288-1	8 - 8	8/13/1991	7.9	
288-10	1.5 - 1.5	8/13/1991	2.5	U
288-11	0.5 - 0.5	8/13/1991	2.3	U
288-12	0.5 - 0.5	8/13/1991	1	U
288-14	3 - 3	8/13/1991	2.4	U
288-14	8 - 8	8/13/1991	2.7	U

South Yard Area COC Results
1,1-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1-Dichloroethene (µg/kg) - 2004 Screening Level = 2.73 µg/kg; PMCL = 190 µg/kg[3]				
288-2	3 - 3	8/13/1991	2.1	U
288-2	8 - 8	8/13/1991	7.9	
288-3	3 - 3	8/13/1991	2.1	U
288-4	3 - 3	8/13/1991	1300	U
288-5	1 - 1	8/13/1991	2700	U
288-5	3 - 3	8/13/1991	2600	U
288-6	1 - 1	8/13/1991	11	U
288-6	3 - 3	8/13/1991	20	U
288-7	3 - 3	8/13/1991	2.2	U
288-8	3 - 3	8/13/1991	2.1	U
288-8	8 - 8	8/13/1991	13	
288-9	1.5 - 1.5	8/13/1991	2.4	U
PL2-115A	2 - 2	7/27/1989	0.7	U
PL2-115A	5 - 5	7/27/1989	0.9	U
PL2-115A	8.5 - 8.5	7/27/1989	0.9	U
PL2-115A	10 - 10	7/27/1989	0.9	U
PL2-116A	2 - 2	7/26/1989	0.7	U
PL2-116A	5 - 5	7/26/1989	0.8	U
PL2-116A	8.5 - 8.5	7/26/1989	0.9	U
PL2-116A	10 - 10	7/26/1989	0.9	U
SB291-16	2 - 2	7/26/1989	0.7	U
SB291-16	5 - 5	7/26/1989	13	
SB291-16	9.5 - 9.5	7/26/1989	0.9	U
SB291-17	2 - 2	7/26/1989	0.7	U
SB291-17	5 - 5	7/26/1989	0.9	U
SB291-17	9.5 - 9.5	7/26/1989	0.9	U
SB297-2	2 - 2	7/25/1989	0.7	U
SB297-2	5 - 5	7/25/1989	0.7	U
SB297-2	10.5 - 10.5	7/25/1989	1	U
SB297-3	2 - 2	7/25/1989	0.7	U
SB297-3	5 - 5	7/25/1989	0.9	U
SB297-3	9.5 - 9.5	7/25/1989	0.9	U
SB291-3	2.5 - 2.5	1/12/1989	68	U
SB291-3	7.5 - 7.5	1/12/1989	190	U
SB291-3	9.5 - 9.5	1/12/1989	4.4	U
SB291-4	5 - 5	1/12/1989	1.4	U
SB291-5	5 - 5	1/12/1989	2	U
SB291-6	2.5 - 7.5	1/12/1989	71	U
SB291-9	2.5 - 2.5	1/12/1989	1.6	U
SB291-9	5 - 5	1/12/1989	3.3	U
SB291-9	9.5 - 9.5	1/12/1989	0.9	U
PL2-117A	7.5 - 7.5	1/11/1989	270	U
SB291-10	2.5 - 2.5	1/11/1989	1.6	U
SB291-8	5 - 5	1/11/1989	97	U
SB291-8	10 - 10	1/11/1989	95	U
PL2-112A	5.5 - 5.5	1/10/1989	230	
PL2-114A	8 - 8	1/10/1989	1.7	U
PL2-114A	10.5 - 10.5	1/10/1989	95	U

South Yard Area COC Results
1,1-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1-Dichloroethene (µg/kg) - 2004 Screening Level = 2.73 µg/kg; PMCL = 190 µg/kg[3]				
PL2-101A	11 - 11	10/28/1985	5	U
PL2-103A	4 - 4	10/28/1985	5	U
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999)

South Yard Area COC Results
cis-1,2-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
cis-1,2-Dichlorethene (µg/kg) - 2004 Soil Screening Level = 794 µg/kg; PMCL = 1,620,400 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	1.2	U
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	2.5	
DP-SY-03	0 - 1	3/7/2005	1.3	U
DP-SY-03	4 - 5	3/7/2005	1.1	U
DP-SY-03	9 - 10	3/7/2005	1	U
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	1.4	U
DP-SY-05	0 - 1	3/7/2005	1	U
DP-SY-05	4 - 5	3/7/2005	1.2	U
DP-SY-05	9 - 10	3/7/2005	48	
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.1	U
DP-SY-10	4 - 5	3/8/2005	1.1	U
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	1.1	U
DP-SY-11	4 - 5	3/8/2005	1.1	U
DP-SY-11	9 - 10	3/8/2005	3.4	
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	2	
PL2-601A	0 - 1.5	3/1/2005	1	U
PL2-601A	3.5 - 5	3/1/2005	1	U
PL2-601A	8.5 - 10	3/1/2005	1.2	U
PL2-602A	0 - 1.5	3/1/2005	1	U
PL2-602A	3.5 - 5	3/1/2005	3.3	
PL2-602A	8.5 - 10	3/1/2005	21	
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

South Yard Area COC Results
cis-1,2-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
cis-1,2-Dichlorethene (µg/kg) - 2004 Soil Screening Level = 794 µg/kg; PMCL = 1,620,400 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08754	8 - 10	7/20/1999	1.4	U
SB-08746	8 - 8	6/4/1999	12	
SB-08747	9 - 9	6/4/1999	200	
SB-08748	11 - 11	6/4/1999	1.5	U
SB-08743	11 - 11	6/3/1999	1.7	
SB-08941	8 - 8	5/25/1999	1.4	U
SB-08942	11 - 11	5/25/1999	1.3	U
SB-08943	11 - 11	5/25/1999	1.9	
SB-08944	11 - 11	5/25/1999	1.4	U
SB-08945	8 - 8	5/25/1999	1000	
SB-08716	3 - 5	11/25/1998	1.4	U
SB-08716	8 - 10	11/25/1998	1.4	U
SB-08717	3 - 5	11/25/1998	1.3	U
SB-08717	8 - 10	11/25/1998	1.4	U
SB-08718	3 - 5	11/25/1998	3.4	
SB-08718	8 - 10	11/25/1998	1.3	U
SB-08719	3 - 5	11/25/1998	1.1	U
SB-08719	8 - 10	11/25/1998	1.3	U
SB-08720	3 - 5	11/25/1998	1.3	U
SB-08720	8 - 10	11/25/1998	1.3	U
SB-08721	3 - 5	11/25/1998	1.3	U
SB-08721	8 - 10	11/25/1998	1.3	U
SB-08722	3 - 5	11/25/1998	1.3	U
SB-08722	8 - 10	11/25/1998	1.4	U
SB-08723	3 - 5	11/25/1998	1.2	U
SB-08723	8 - 10	11/25/1998	1.3	U
SB-08724	3 - 5	11/25/1998	1.1	U
SB-08724	8 - 10	11/25/1998	93	
SB-08930	3 - 5	11/24/1998	1.1	U
SB-08930	8 - 10	11/24/1998	1.2	U
SB-08931	3 - 5	11/24/1998	1.1	U
SB-08931	8 - 10	11/24/1998	1.2	U
SB-08932	3 - 5	11/24/1998	1.1	U
SB-08932	8 - 10	11/24/1998	1.2	U
SB-08933	3 - 5	11/24/1998	1.2	U
SB-08933	8 - 10	11/24/1998	1.2	U
SB-08934	3 - 5	11/24/1998	1.2	U
SB-08934	8 - 10	11/24/1998	8.8	U
SB-08935	3 - 5	11/24/1998	1.1	U
SB-08935	8 - 10	11/24/1998	1.3	U
SB-08936	3 - 5	11/24/1998	1.1	U

South Yard Area COC Results
cis-1,2-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
cis-1,2-Dichlorethene (µg/kg) - 2004 Soil Screening Level = 794 µg/kg; PMCL = 1,620,400 µg/kg[3]				
SB-08936	8 - 10	11/24/1998	1.3	U
SB-08937	3 - 5	11/24/1998	1.2	U
SB-08937	8 - 10	11/24/1998	1.3	U
SB-08938	3 - 5	11/24/1998	1.1	U
SB-08938	8 - 10	11/24/1998	1.2	U
SB-08939	3 - 5	11/24/1998	1.2	U
SB-08939	8 - 10	11/24/1998	1.3	U
SB-08940	3 - 5	11/24/1998	1.1	U
SB-08940	8 - 10	11/24/1998	1.3	U
SB-08022	10 - 11	3/19/1998	1.4	U
SB-08020	10 - 11	3/18/1998	1.2	U
SB-08021	9 - 10	3/18/1998	1.2	U
SB-08009	0.6 - 0.6	2/16/1995	1.1	U
SB-08009	6 - 6	2/16/1995	1.2	U
SB-08010	0.5 - 0.5	2/16/1995	1	U
SB-08010	6 - 6	2/16/1995	1.3	U
SB-08008	3.5 - 3.5	2/15/1995	1.1	U
SB-08008	6.5 - 6.5	2/15/1995	1.1	U
SB-08008	11.5 - 11.5	2/15/1995	1.3	U
SB-08005	11 - 11	9/22/1994	1.3	U
SB-08604	1.5 - 1.5	9/19/1994	1.1	U
SB-08604	6 - 6	9/19/1994	1.3	U
SB-08604	9 - 9	9/19/1994	1.3	U
SB-08301	1.5 - 1.5	9/3/1994	1.2	U
SB-08301	4.5 - 4.5	9/3/1994	1.5	U
SB-08301	11.5 - 11.5	9/3/1994	1.3	U
SB-08302	2 - 2	9/3/1994	1.1	U
SB-08302	5 - 5	9/3/1994	1.3	U
SB-08302	11 - 11	9/3/1994	1.3	U
SB-08905	5 - 5	8/24/1994	1.3	U
SB-08905	7.5 - 7.5	8/24/1994	1.1	U
SB-08905	10 - 10	8/24/1994	1.2	U
SB-08917	1 - 1	8/23/1994	1	U
SB-08917	7.5 - 7.5	8/23/1994	100	
SB-08917	10 - 10	8/23/1994	1.3	U
SB-08920	1 - 1	8/23/1994	1	U
SB-08920	7.5 - 7.5	8/23/1994	1.2	U
SB-08920	10 - 10	8/23/1994	1.3	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	5 - 5	8/19/1994	6.3	
SB-08922	10 - 10	8/19/1994	1.3	U
SB-08919	2.5 - 2.5	8/18/1994	1.1	U
SB-08919	7.5 - 7.5	8/18/1994	1.3	U
SB-08919	10 - 10	8/18/1994	1.2	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	7.5 - 7.5	8/18/1994	4.6	

South Yard Area COC Results
cis-1,2-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
cis-1,2-Dichlorethene (µg/kg) - 2004 Soil Screening Level = 794 µg/kg; PMCL = 1,620,400 µg/kg[3]				
SB-08924	10 - 10	8/18/1994	1.3	U
SB-08915	2 - 2	8/17/1994	1.1	U
SB-08915	5 - 5	8/17/1994	1.1	U
SB-08915	7.5 - 7.5	8/17/1994	240	
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	5 - 5	8/16/1994	70	
SB-09102	7.5 - 7.5	8/16/1994	46	
SB-09103	2.5 - 2.5	8/16/1994	1	U
SB-09103	7.5 - 7.5	8/16/1994	20	
SB-09103	10 - 10	8/16/1994	1.3	U
SB-09104	1 - 1	8/16/1994	1	U
SB-09104	7.5 - 7.5	8/16/1994	1500	D
SB-09104	10 - 10	8/16/1994	1.3	
SB-10401	10 - 10	3/15/1994	150	U
SB-08201	6.5 - 6.5	12/21/1993	1.1	U
SB-08201	8 - 8	12/21/1993	1.3	U
SB-08201	11 - 11	12/21/1993	2.3	
SB-08601	1.5 - 1.5	12/20/1993	1.1	U
SB-08601	7 - 7	12/20/1993	1.1	U
SB-08601	11 - 11	12/20/1993	1.3	U
SB-08303	5 - 5	12/13/1993	1.3	U
SB-08903	7.5 - 7.5	12/13/1993	1.2	U
SB-08901	5 - 5	12/11/1993	1.4	U
SB-08901	7.5 - 7.5	12/11/1993	4.4	
PL2-111A	1 - 1	12/9/1993	1.1	U
PL2-111A	7.5 - 7.5	12/9/1993	29	
SB-08602	1 - 1	12/9/1993	1	U
SB-08602	7.5 - 7.5	12/9/1993	1.5	U
SB-08904	1 - 1	12/9/1993	1.1	U
SB-08904	7.5 - 7.5	12/9/1993	19	
SB-28201	1 - 1	12/9/1993	1.2	U
SB-28201	7.5 - 7.5	12/9/1993	1.1	U
SS-09101	0 - 0.5	11/29/1993	1.2	U
SS-09112	0 - 0.5	11/29/1993	160	U
SS-09103	0 - 0.5	11/24/1993	3	
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09104	0 - 0.5	11/22/1993	340	U
SS-09102	0 - 0.5	11/19/1993	4.7	
SS-09109	0 - 0.5	11/19/1993	1.1	U
SS-09106	0 - 0.5	11/18/1993	1.2	U
SS-09108	0 - 0.5	11/17/1993	1	U
SS-09110	0 - 0.5	11/17/1993	4	
SS-09105	0 - 0.5	11/16/1993	1.6	
SS-09107	0 - 0.5	11/16/1993	4.1	U
PL2-301A	5 - 5	7/8/1992	1.3	U
PL2-301A	10 - 10	7/8/1992	2.2	

South Yard Area COC Results
cis-1,2-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
cis-1,2-Dichlorethene (µg/kg) - 2004 Soil Screening Level = 794 µg/kg; PMCL = 1,620,400 µg/kg[3]				
PL2-302A	5 - 5	7/8/1992	1	U
PL2-302A	10 - 10	7/8/1992	1.3	U
PL2-303A	5 - 5	7/8/1992	1.2	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-109B	9 - 9	7/7/1992	780	
PL2-109C	6 - 6	7/6/1992	1.2	U
PL2-109C	9 - 9	7/6/1992	2.4	
PL2-105C	3 - 3	6/25/1992	1	U
PL2-105C	10 - 10	6/25/1992	65	
PL2-104B	6 - 6	6/24/1992	1.4	U
PL2-104B	11 - 11	6/24/1992	1.3	U
PL2-110C	6 - 6	6/22/1992	1.1	U
PL2-110C	9 - 9	6/22/1992	160	U
PL2-106C	7 - 7	6/18/1992	210	
PL2-106C	12 - 12	6/18/1992	1.4	U
HA-284-03	2 - 2.5	4/27/1992	1	U
HA-284-03	4 - 4.5	4/27/1992	1.7	U
SB-284-01	4 - 4.5	4/27/1992	1.1	U
SB-284-01	8 - 8.5	4/27/1992	1.4	U
SB-284-02	4 - 4.5	4/27/1992	1.2	U
SB-284-02	6 - 6.5	4/27/1992	1.2	U
PL31-B1	9 - 9	3/24/1992	1.6	
PL31-B2	8.5 - 8.5	3/24/1992	1.1	U
PL31-P1	1.8 - 1.8	3/24/1992	1	U
PL31-S1	4.6 - 4.6	3/24/1992	1.1	U
PL31-S2	5 - 5	3/24/1992	1	U
PL31-S3	5.5 - 5.5	3/24/1992	1	U
PL31-S4	5.9 - 5.9	3/24/1992	1	U
PL66-B1	5.5 - 5.5	10/28/1991	1.1	U
PL66-B1	10.5 - 10.5	10/28/1991	3.1	
PL66-B2	5.5 - 5.5	10/28/1991	1.2	U
PL66-B2	10.5 - 10.5	10/28/1991	1.3	U
SB116-B1	5 - 5	9/13/1991	1.2	U
SB116-B1	8 - 8	9/13/1991	8.6	
SB116-B1	9.5 - 9.5	9/13/1991	1.3	U
SB116-B2	2 - 2	9/13/1991	1	U
SB116-B2	7 - 7	9/13/1991	1.1	U
SB116-B2	12 - 12	9/13/1991	1.3	U
SB116-B3	2 - 2	9/13/1991	1.4	U
SB116-B3	7 - 7	9/13/1991	2.5	
SB116-B3	12 - 12	9/13/1991	1.3	U
288-1	3 - 3	8/13/1991	1.4	
288-1	8 - 8	8/13/1991	1500	
288-10	1.5 - 1.5	8/13/1991	4.2	
288-11	0.5 - 0.5	8/13/1991	5.8	
288-14	3 - 3	8/13/1991	2.2	
288-14	8 - 8	8/13/1991	1.3	U

South Yard Area COC Results
cis-1,2-Dichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
cis-1,2-Dichlorethene (µg/kg) - 2004 Soil Screening Level = 794 µg/kg; PMCL = 1,620,400 µg/kg[3]				
288-2	3 - 3	8/13/1991	1	U
288-2	8 - 8	8/13/1991	820	
288-3	3 - 3	8/13/1991	1	U
288-4	3 - 3	8/13/1991	670	U
288-5	1 - 1	8/13/1991	0	N/A
288-5	3 - 3	8/13/1991	1400	
288-6	1 - 1	8/13/1991	4.6	J
288-6	3 - 3	8/13/1991	37	
288-7	3 - 3	8/13/1991	1.1	U
288-8	3 - 3	8/13/1991	1	U
288-8	8 - 8	8/13/1991	540	
288-9	1.5 - 1.5	8/13/1991	1.2	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Ethylbenzene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Ethylbenzene (µg/kg) - 2004 Soil Screening Level = 2,520 µg/kg; PMCL = 43,000 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	1.2	U
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	1	U
DP-SY-03	0 - 1	3/7/2005	1.3	U
DP-SY-03	4 - 5	3/7/2005	1.1	U
DP-SY-03	9 - 10	3/7/2005	1	U
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	1.4	U
DP-SY-05	0 - 1	3/7/2005	1	U
DP-SY-05	4 - 5	3/7/2005	1.2	U
DP-SY-05	9 - 10	3/7/2005	1.3	U
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.1	U
DP-SY-10	4 - 5	3/8/2005	1.1	U
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	1.1	U
DP-SY-11	4 - 5	3/8/2005	1.1	U
DP-SY-11	9 - 10	3/8/2005	1.4	U
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	1.2	U
PL2-601A	0 - 1.5	3/1/2005	1	UJ
PL2-601A	3.5 - 5	3/1/2005	1	UJ
PL2-601A	8.5 - 10	3/1/2005	1.2	UJ
PL2-602A	0 - 1.5	3/1/2005	1	UJ
PL2-602A	3.5 - 5	3/1/2005	1.1	UJ
PL2-602A	8.5 - 10	3/1/2005	1.4	UJ
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Ethylbenzene (µg/kg) - 2004 Soil Screening Level = 2,520 µg/kg; PMCL = 43,000 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08716	3 - 5	11/25/1998	1.4	U
SB-08716	8 - 10	11/25/1998	1.4	U
SB-08717	3 - 5	11/25/1998	1.3	U
SB-08717	8 - 10	11/25/1998	1.4	U
SB-08718	3 - 5	11/25/1998	1.3	U
SB-08718	8 - 10	11/25/1998	1.3	U
SB-08719	3 - 5	11/25/1998	1.1	U
SB-08719	8 - 10	11/25/1998	1.3	U
SB-08720	3 - 5	11/25/1998	1.3	U
SB-08720	8 - 10	11/25/1998	1.3	U
SB-08721	3 - 5	11/25/1998	1.3	U
SB-08721	8 - 10	11/25/1998	1.3	U
SB-08722	3 - 5	11/25/1998	1.3	U
SB-08722	8 - 10	11/25/1998	1.4	U
SB-08723	3 - 5	11/25/1998	1.2	U
SB-08723	8 - 10	11/25/1998	1.3	U
SB-08724	3 - 5	11/25/1998	1.1	U
SB-08724	8 - 10	11/25/1998	1.5	U
SB-08930	3 - 5	11/24/1998	1.1	U
SB-08930	8 - 10	11/24/1998	1.2	U
SB-08931	3 - 5	11/24/1998	1.1	U
SB-08931	8 - 10	11/24/1998	1.2	U
SB-08932	3 - 5	11/24/1998	1.1	U
SB-08932	8 - 10	11/24/1998	1.2	U
SB-08933	3 - 5	11/24/1998	1.2	U
SB-08933	8 - 10	11/24/1998	1.2	U
SB-08934	3 - 5	11/24/1998	1.2	U
SB-08934	8 - 10	11/24/1998	8.8	U
SB-08935	3 - 5	11/24/1998	1.1	U
SB-08935	8 - 10	11/24/1998	1.3	U
SB-08936	3 - 5	11/24/1998	1.1	U
SB-08936	8 - 10	11/24/1998	1.3	U
SB-08937	3 - 5	11/24/1998	1.2	U
SB-08937	8 - 10	11/24/1998	1.3	U
SB-08938	3 - 5	11/24/1998	1.1	U
SB-08938	8 - 10	11/24/1998	1.2	U
SB-08939	3 - 5	11/24/1998	1.2	U
SB-08939	8 - 10	11/24/1998	1.3	U
SB-08940	3 - 5	11/24/1998	1.1	U
SB-08940	8 - 10	11/24/1998	1.3	U
SB-08022	10 - 11	3/19/1998	1.4	U

South Yard Area COC Results
Ethylbenzene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Ethylbenzene (µg/kg) - 2004 Soil Screening Level = 2,520 µg/kg; PMCL = 43,000 µg/kg[3]				
SB-08020	10 - 11	3/18/1998	1.2	
SB-08021	9 - 10	3/18/1998	1.2	U
SB-08009	0.6 - 0.6	2/16/1995	1.1	U
SB-08009	6 - 6	2/16/1995	1.2	U
SB-08010	0.5 - 0.5	2/16/1995	1	U
SB-08010	6 - 6	2/16/1995	1.3	U
SB-08008	3.5 - 3.5	2/15/1995	1.1	U
SB-08008	6.5 - 6.5	2/15/1995	1.1	U
SB-08008	11.5 - 11.5	2/15/1995	1.3	U
SB-08005	11 - 11	9/22/1994	1.3	
SB-08604	1.5 - 1.5	9/19/1994	1.1	U
SB-08604	6 - 6	9/19/1994	1.3	U
SB-08604	9 - 9	9/19/1994	1.3	U
SB-08301	1.5 - 1.5	9/3/1994	1.2	U
SB-08301	4.5 - 4.5	9/3/1994	1.5	U
SB-08301	11.5 - 11.5	9/3/1994	1.3	U
SB-08302	2 - 2	9/3/1994	1.1	U
SB-08302	5 - 5	9/3/1994	1.3	U
SB-08302	11 - 11	9/3/1994	1.3	U
SB-08905	5 - 5	8/24/1994	12	
SB-08905	7.5 - 7.5	8/24/1994	1.1	U
SB-08905	10 - 10	8/24/1994	1.2	U
SB-08917	1 - 1	8/23/1994	1	U
SB-08917	7.5 - 7.5	8/23/1994	60	
SB-08917	10 - 10	8/23/1994	52	
SB-08920	1 - 1	8/23/1994	1	U
SB-08920	7.5 - 7.5	8/23/1994	1.2	U
SB-08920	10 - 10	8/23/1994	1.3	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	5 - 5	8/19/1994	1.2	U
SB-08922	10 - 10	8/19/1994	1.3	U
SB-08919	2.5 - 2.5	8/18/1994	1.1	U
SB-08919	7.5 - 7.5	8/18/1994	1.3	U
SB-08919	10 - 10	8/18/1994	1.2	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	7.5 - 7.5	8/18/1994	530	D
SB-08924	10 - 10	8/18/1994	190	D
SB-08915	2 - 2	8/17/1994	2.4	UI
SB-08915	5 - 5	8/17/1994	1.1	U
SB-08915	7.5 - 7.5	8/17/1994	12	
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	5 - 5	8/16/1994	1.4	U
SB-09102	7.5 - 7.5	8/16/1994	1.4	U
SB-09103	2.5 - 2.5	8/16/1994	1	U
SB-09103	7.5 - 7.5	8/16/1994	1.4	U

South Yard Area COC Results
Ethylbenzene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Ethylbenzene (µg/kg) - 2004 Soil Screening Level = 2,520 µg/kg; PMCL = 43,000 µg/kg[3]				
SB-09103	10 - 10	8/16/1994	1.3	U
SB-09104	1 - 1	8/16/1994	1	U
SB-09104	7.5 - 7.5	8/16/1994	64	
SB-09104	10 - 10	8/16/1994	11	
SB-10401	10 - 10	3/15/1994	150	U
SB-08201	6.5 - 6.5	12/21/1993	1.1	U
SB-08201	8 - 8	12/21/1993	1.3	U
SB-08201	11 - 11	12/21/1993	1.3	U
SB-08601	1.5 - 1.5	12/20/1993	1.1	U
SB-08601	7 - 7	12/20/1993	1.1	U
SB-08601	11 - 11	12/20/1993	1.3	U
SB-08303	5 - 5	12/13/1993	1.3	U
SB-08903	7.5 - 7.5	12/13/1993	1.2	U
SB-08901	5 - 5	12/11/1993	1.4	U
SB-08901	7.5 - 7.5	12/11/1993	1.3	U
PL2-111A	1 - 1	12/9/1993	1.1	U
PL2-111A	7.5 - 7.5	12/9/1993	1.3	U
SB-08602	1 - 1	12/9/1993	1	U
SB-08602	7.5 - 7.5	12/9/1993	1.5	U
SB-08904	1 - 1	12/9/1993	1.1	U
SB-08904	7.5 - 7.5	12/9/1993	1.3	U
SB-28201	1 - 1	12/9/1993	1.2	U
SB-28201	7.5 - 7.5	12/9/1993	1.1	U
SS-09101	0 - 0.5	11/29/1993	1.2	U
SS-09112	0 - 0.5	11/29/1993	160	U
SS-09103	0 - 0.5	11/24/1993	1.1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09104	0 - 0.5	11/22/1993	340	U
SS-09102	0 - 0.5	11/19/1993	1.1	U
SS-09109	0 - 0.5	11/19/1993	1.1	U
SS-09106	0 - 0.5	11/18/1993	1.2	U
SS-09108	0 - 0.5	11/17/1993	1	U
SS-09110	0 - 0.5	11/17/1993	1.1	U
SS-09105	0 - 0.5	11/16/1993	1.2	U
SS-09107	0 - 0.5	11/16/1993	4.1	U
EX-1	8 - 8	10/23/1992	260000	
EX-3	8 - 8	10/23/1992	11000	
EX-5	10.5 - 10.5	10/23/1992	280	
PL2-301A	5 - 5	7/8/1992	1.3	U
PL2-301A	10 - 10	7/8/1992	1.2	U
PL2-302A	5 - 5	7/8/1992	1	U
PL2-302A	10 - 10	7/8/1992	1.3	U
PL2-303A	5 - 5	7/8/1992	1.2	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-109B	9 - 9	7/7/1992	1.3	U
PL2-109C	6 - 6	7/6/1992	1.2	U

South Yard Area COC Results
Ethylbenzene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Ethylbenzene (µg/kg) - 2004 Soil Screening Level = 2,520 µg/kg; PMCL = 43,000 µg/kg[3]				
PL2-109C	9 - 9	7/6/1992	1.3	U
PL2-105C	3 - 3	6/25/1992	1	U
PL2-105C	10 - 10	6/25/1992	1.3	U
PL2-104B	6 - 6	6/24/1992	1.4	U
PL2-104B	11 - 11	6/24/1992	1.3	U
PL2-110C	6 - 6	6/22/1992	1.1	U
PL2-110C	9 - 9	6/22/1992	810	
PL2-106C	7 - 7	6/18/1992	1.4	U
PL2-106C	12 - 12	6/18/1992	1.4	U
HA-284-03	2 - 2.5	4/27/1992	1	U
HA-284-03	4 - 4.5	4/27/1992	1.7	U
SB-284-01	4 - 4.5	4/27/1992	1.1	U
SB-284-01	8 - 8.5	4/27/1992	1.4	U
SB-284-02	4 - 4.5	4/27/1992	1.2	U
SB-284-02	6 - 6.5	4/27/1992	1.2	U
PL31-B1	9 - 9	3/24/1992	1.4	U
PL31-B2	8.5 - 8.5	3/24/1992	1.1	U
PL31-P1	1.8 - 1.8	3/24/1992	1	U
PL31-S1	4.6 - 4.6	3/24/1992	1.1	U
PL31-S2	5 - 5	3/24/1992	1	U
PL31-S3	5.5 - 5.5	3/24/1992	1	U
PL31-S4	5.9 - 5.9	3/24/1992	1	U
PL66-B1	5.5 - 5.5	10/28/1991	1.1	U
PL66-B1	10.5 - 10.5	10/28/1991	1.3	U
PL66-B2	5.5 - 5.5	10/28/1991	1.2	U
PL66-B2	10.5 - 10.5	10/28/1991	1.3	U
SB116-B1	5 - 5	9/13/1991	1.2	U
SB116-B1	8 - 8	9/13/1991	1.4	U
SB116-B1	9.5 - 9.5	9/13/1991	1.3	U
SB116-B2	2 - 2	9/13/1991	1	U
SB116-B2	7 - 7	9/13/1991	1.1	U
SB116-B2	12 - 12	9/13/1991	1.3	U
SB116-B3	2 - 2	9/13/1991	1.4	U
SB116-B3	7 - 7	9/13/1991	1.4	U
SB116-B3	12 - 12	9/13/1991	1.3	U
288-16	4 - 4	8/14/1991	1	U
288-17	4 - 4	8/14/1991	1	U
288-18	4 - 4	8/14/1991	1.1	U
288-19	4 - 4	8/14/1991	8.9	
288-20	4 - 4	8/14/1991	1	U
288-21	4 - 4	8/14/1991	1	U
288-22	4 - 4	8/14/1991	1.1	U
288-23	4 - 4	8/14/1991	1.1	U
288-24	4 - 4	8/14/1991	1	U
288-1	3 - 3	8/13/1991	1.1	U
288-1	8 - 8	8/13/1991	1.5	U
288-10	1.5 - 1.5	8/13/1991	1.2	U
288-11	0.5 - 0.5	8/13/1991	1.2	U

South Yard Area COC Results
Ethylbenzene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Ethylbenzene (µg/kg) - 2004 Soil Screening Level = 2,520 µg/kg; PMCL = 43,000 µg/kg[3]				
288-12	0.5 - 0.5	8/13/1991	1	U
288-14	3 - 3	8/13/1991	1.2	U
288-14	8 - 8	8/13/1991	5.6	
288-2	3 - 3	8/13/1991	1	U
288-2	8 - 8	8/13/1991	1.4	U
288-3	3 - 3	8/13/1991	1	U
288-4	3 - 3	8/13/1991	670	U
288-5	1 - 1	8/13/1991	1400	U
288-5	3 - 3	8/13/1991	800	N
288-6	1 - 1	8/13/1991	5.3	U
288-6	3 - 3	8/13/1991	130	N
288-7	3 - 3	8/13/1991	1.1	U
288-8	3 - 3	8/13/1991	1	U
288-8	8 - 8	8/13/1991	1.4	U
288-9	1.5 - 1.5	8/13/1991	1.2	U
PL2-115A	2 - 2	7/27/1989	0.9	U
PL2-115A	5 - 5	7/27/1989	1	U
PL2-115A	8.5 - 8.5	7/27/1989	1.9	
PL2-115A	10 - 10	7/27/1989	2.1	
PL2-116A	2 - 2	7/26/1989	0.8	U
PL2-116A	5 - 5	7/26/1989	0.9	U
PL2-116A	8.5 - 8.5	7/26/1989	1	U
PL2-116A	10 - 10	7/26/1989	1	U
SB291-16	2 - 2	7/26/1989	0.8	U
SB291-16	5 - 5	7/26/1989	4.1	U
SB291-16	9.5 - 9.5	7/26/1989	1	U
SB291-17	2 - 2	7/26/1989	0.8	U
SB291-17	5 - 5	7/26/1989	1	U
SB291-17	9.5 - 9.5	7/26/1989	1	U
SB297-2	2 - 2	7/25/1989	0.5	N
SB297-2	5 - 5	7/25/1989	0.9	U
SB297-2	10.5 - 10.5	7/25/1989	1.1	U
SB297-3	2 - 2	7/25/1989	0.8	U
SB297-3	5 - 5	7/25/1989	1	U
SB297-3	9.5 - 9.5	7/25/1989	1	U
SB291-3	2.5 - 2.5	1/12/1989	53	U
SB291-3	7.5 - 7.5	1/12/1989	220	U
SB291-3	9.5 - 9.5	1/12/1989	5	U
SB291-4	5 - 5	1/12/1989	1.6	U
SB291-5	5 - 5	1/12/1989	2.3	U
SB291-6	2.5 - 7.5	1/12/1989	55	U
SB291-9	2.5 - 2.5	1/12/1989	1.9	U
SB291-9	5 - 5	1/12/1989	3.8	U
SB291-9	9.5 - 9.5	1/12/1989	150	
PL2-117A	7.5 - 7.5	1/11/1989	310	U
SB291-10	2.5 - 2.5	1/11/1989	1.8	U
SB291-8	5 - 5	1/11/1989	150	
SB291-8	10 - 10	1/11/1989	140	

South Yard Area COC Results
Ethylbenzene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Ethylbenzene (µg/kg) - 2004 Soil Screening Level = 2,520 µg/kg; PMCL = 43,000 µg/kg[3]				
PL2-112A	5.5 - 5.5	1/10/1989	18	
PL2-114A	8 - 8	1/10/1989	1600	
PL2-114A	10.5 - 10.5	1/10/1989	680	
PL2-101A	11 - 11	10/28/1985	5	U
PL2-103A	4 - 4	10/28/1985	5	U
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Methylene Chloride (µg/kg) - 2004 Soil Screening Level = 828 µg/kg; PMCL = 96,000 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	2.1	U
DP-SY-01	4 - 5	3/8/2005	2.5	U
DP-SY-01	9 - 10	3/8/2005	2.6	U
DP-SY-02	0 - 1	3/7/2005	2.3	U
DP-SY-02	4 - 5	3/7/2005	2.1	U
DP-SY-02	9 - 10	3/7/2005	2	U
DP-SY-03	0 - 1	3/7/2005	2.6	U
DP-SY-03	4 - 5	3/7/2005	2.1	U
DP-SY-03	9 - 10	3/7/2005	2	U
DP-SY-04	0 - 1	3/7/2005	2	U
DP-SY-04	4 - 5	3/7/2005	2.1	U
DP-SY-04	9 - 10	3/7/2005	2.7	U
DP-SY-05	0 - 1	3/7/2005	5.7	
DP-SY-05	4 - 5	3/7/2005	2.4	U
DP-SY-05	9 - 10	3/7/2005	2.6	U
DP-SY-06	0 - 1	3/7/2005	2.2	U
DP-SY-06	4 - 5	3/7/2005	2.4	U
DP-SY-06	9 - 10	3/7/2005	2.8	U
DP-SY-07	0 - 1	3/7/2005	2.1	U
DP-SY-07	4 - 5	3/7/2005	2.3	U
DP-SY-07	9 - 10	3/7/2005	2.3	U
DP-SY-08	0 - 1	3/7/2005	2.2	U
DP-SY-08	4 - 5	3/7/2005	2.7	U
DP-SY-08	4 - 5	3/7/2005	2.8	U
DP-SY-08	9 - 10	3/7/2005	2.6	U
DP-SY-09	0 - 1	3/8/2005	2	U
DP-SY-09	4 - 5	3/8/2005	2.5	U
DP-SY-09	9 - 10	3/8/2005	2.4	U
DP-SY-10	0 - 1	3/8/2005	2.1	U
DP-SY-10	4 - 5	3/8/2005	2.2	U
DP-SY-10	9 - 10	3/8/2005	2.1	U
DP-SY-11	0 - 1	3/8/2005	2.2	U
DP-SY-11	4 - 5	3/8/2005	2.2	U
DP-SY-11	9 - 10	3/8/2005	2.7	U
DP-SY-12	0 - 1	3/8/2005	2	U
DP-SY-12	4 - 5	3/8/2005	2.1	U
DP-SY-12	9 - 10	3/8/2005	2.5	U
PL2-601A	0 - 1.5	3/1/2005	2	U
PL2-601A	3.5 - 5	3/1/2005	2	U
PL2-601A	8.5 - 10	3/1/2005	2.5	U
PL2-602A	0 - 1.5	3/1/2005	2	U
PL2-602A	3.5 - 5	3/1/2005	2.3	U
PL2-602A	8.5 - 10	3/1/2005	2.8	U
PL2-603A	0 - 1.5	2/28/2005	2.1	U
PL2-603A	3.5 - 5	2/28/2005	2	U
PL2-603A	8.5 - 10	2/28/2005	2.2	U
SB-08334	4 - 5	4/23/2002	3.3	U
SB-08334	7.5 - 8.5	4/23/2002	3.3	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Methylene Chloride (µg/kg) - 2004 Soil Screening Level = 828 µg/kg; PMCL = 96,000 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	3.4	U
SB-08335	9 - 10	4/23/2002	3.5	U
SB-08332	4 - 5	4/15/2002	3.4	U
SB-08332	4 - 5	4/15/2002	3.3	U
SB-08332	9 - 10	4/15/2002	4.1	U
SB-08333	4 - 5	4/15/2002	3.4	U
SB-08333	9 - 10	4/15/2002	3.9	U
SB-08716	3 - 5	11/25/1998	3.9	
SB-08716	8 - 10	11/25/1998	2.7	U
SB-08717	3 - 5	11/25/1998	3.2	
SB-08717	8 - 10	11/25/1998	2.7	U
SB-08718	3 - 5	11/25/1998	3.3	
SB-08718	8 - 10	11/25/1998	2.7	U
SB-08719	3 - 5	11/25/1998	2.2	U
SB-08719	8 - 10	11/25/1998	3.2	
SB-08720	3 - 5	11/25/1998	2.8	
SB-08720	8 - 10	11/25/1998	3.1	
SB-08721	3 - 5	11/25/1998	3.2	
SB-08721	8 - 10	11/25/1998	2.5	U
SB-08722	3 - 5	11/25/1998	4.2	
SB-08722	8 - 10	11/25/1998	3	
SB-08723	3 - 5	11/25/1998	3.1	
SB-08723	8 - 10	11/25/1998	3.5	
SB-08724	3 - 5	11/25/1998	2.2	U
SB-08724	8 - 10	11/25/1998	4	
SB-08930	3 - 5	11/24/1998	2.4	UJ
SB-08930	8 - 10	11/24/1998	5.1	UJ
SB-08931	3 - 5	11/24/1998	3.4	UJ
SB-08931	8 - 10	11/24/1998	3.9	UJ
SB-08932	3 - 5	11/24/1998	2.2	U
SB-08932	8 - 10	11/24/1998	3.9	UJ
SB-08933	3 - 5	11/24/1998	2.4	UJ
SB-08933	8 - 10	11/24/1998	2.4	UJ
SB-08934	3 - 5	11/24/1998	3.2	UJ
SB-08934	8 - 10	11/24/1998	38	UJ
SB-08935	3 - 5	11/24/1998	2.8	UJ
SB-08935	8 - 10	11/24/1998	3	UJ
SB-08936	3 - 5	11/24/1998	4	UJ
SB-08936	8 - 10	11/24/1998	5.2	UJ
SB-08937	3 - 5	11/24/1998	2.9	UJ
SB-08937	8 - 10	11/24/1998	2.9	UJ
SB-08938	3 - 5	11/24/1998	2.2	U
SB-08938	8 - 10	11/24/1998	2.7	UJ
SB-08939	3 - 5	11/24/1998	2.3	U
SB-08939	8 - 10	11/24/1998	2.6	U
SB-08940	3 - 5	11/24/1998	2.7	UJ
SB-08940	8 - 10	11/24/1998	3.3	UJ
SB-08022	10 - 11	3/19/1998	2.9	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Methylene Chloride (µg/kg) - 2004 Soil Screening Level = 828 µg/kg; PMCL = 96,000 µg/kg[3]				
SB-08020	10 - 11	3/18/1998	2.3	U
SB-08021	9 - 10	3/18/1998	2.4	U
SB-08009	0.6 - 0.6	2/16/1995	2.2	U
SB-08009	6 - 6	2/16/1995	2.3	U
SB-08010	0.5 - 0.5	2/16/1995	2.1	U
SB-08010	6 - 6	2/16/1995	2.5	U
SB-08008	3.5 - 3.5	2/15/1995	2.2	U
SB-08008	6.5 - 6.5	2/15/1995	2.2	U
SB-08008	11.5 - 11.5	2/15/1995	2.6	U
SB-08005	11 - 11	9/22/1994	2.6	U
SB-08604	1.5 - 1.5	9/19/1994	2.2	U
SB-08604	6 - 6	9/19/1994	2.6	U
SB-08604	9 - 9	9/19/1994	2.6	U
SB-08301	1.5 - 1.5	9/3/1994	2.7	UB
SB-08301	4.5 - 4.5	9/3/1994	3	U
SB-08301	11.5 - 11.5	9/3/1994	2.5	U
SB-08302	2 - 2	9/3/1994	3.3	UB
SB-08302	5 - 5	9/3/1994	3.7	UB
SB-08302	11 - 11	9/3/1994	2.7	UB
SB-08905	5 - 5	8/24/1994	4.3	J
SB-08905	7.5 - 7.5	8/24/1994	2.4	J
SB-08905	10 - 10	8/24/1994	2.5	U
SB-08917	1 - 1	8/23/1994	2	U
SB-08917	7.5 - 7.5	8/23/1994	3.2	
SB-08917	10 - 10	8/23/1994	2.6	U
SB-08920	1 - 1	8/23/1994	2.1	U
SB-08920	7.5 - 7.5	8/23/1994	2.4	
SB-08920	10 - 10	8/23/1994	2.6	U
SB-08922	1 - 1	8/19/1994	2	U
SB-08922	1 - 1	8/19/1994	2	U
SB-08922	5 - 5	8/19/1994	2.3	U
SB-08922	10 - 10	8/19/1994	2.5	U
SB-08919	2.5 - 2.5	8/18/1994	2.2	U
SB-08919	7.5 - 7.5	8/18/1994	2.6	U
SB-08919	10 - 10	8/18/1994	2.5	U
SB-08924	2.5 - 2.5	8/18/1994	2	U
SB-08924	2.5 - 2.5	8/18/1994	2.1	U
SB-08924	7.5 - 7.5	8/18/1994	2.7	U
SB-08924	10 - 10	8/18/1994	2.6	U
SB-08915	2 - 2	8/17/1994	2.2	U
SB-08915	5 - 5	8/17/1994	2.2	U
SB-08915	7.5 - 7.5	8/17/1994	2.7	
SB-09102	1 - 1	8/16/1994	2.1	U
SB-09102	1 - 1	8/16/1994	2.1	U
SB-09102	5 - 5	8/16/1994	4.4	
SB-09102	7.5 - 7.5	8/16/1994	2.8	U
SB-09103	2.5 - 2.5	8/16/1994	2.1	U
SB-09103	7.5 - 7.5	8/16/1994	2.8	U

South Yard Area COC Results
Methylene Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Methylene Chloride (µg/kg) - 2004 Soil Screening Level = 828 µg/kg; PMCL = 96,000 µg/kg[3]				
SB-09103	10 - 10	8/16/1994	2.6	U
SB-09104	1 - 1	8/16/1994	2.1	U
SB-09104	7.5 - 7.5	8/16/1994	3	U
SB-09104	10 - 10	8/16/1994	2.6	U
SB-10401	10 - 10	3/15/1994	310	U
SB-08201	6.5 - 6.5	12/21/1993	2.2	U
SB-08201	8 - 8	12/21/1993	2.6	U
SB-08201	11 - 11	12/21/1993	2.5	U
SB-08601	1.5 - 1.5	12/20/1993	2.3	U
SB-08601	7 - 7	12/20/1993	2.2	U
SB-08601	11 - 11	12/20/1993	2.5	U
SB-08303	5 - 5	12/13/1993	2.7	U
SB-08903	7.5 - 7.5	12/13/1993	2.4	U
SB-08901	5 - 5	12/11/1993	2.9	U
SB-08901	7.5 - 7.5	12/11/1993	2.7	U
PL2-111A	1 - 1	12/9/1993	2.2	U
PL2-111A	7.5 - 7.5	12/9/1993	2.6	U
SB-08602	1 - 1	12/9/1993	2.1	U
SB-08602	7.5 - 7.5	12/9/1993	4.5	
SB-08904	1 - 1	12/9/1993	2.1	U
SB-08904	7.5 - 7.5	12/9/1993	2.9	
SB-28201	1 - 1	12/9/1993	25	J
SB-28201	7.5 - 7.5	12/9/1993	19	J
SS-09101	0 - 0.5	11/29/1993	2.3	U
SS-09112	0 - 0.5	11/29/1993	310	U
SS-09103	0 - 0.5	11/24/1993	2.3	U
SS-09111	0 - 0.5	11/23/1993	2.1	U
SS-09111	0 - 0.5	11/23/1993	2	U
SS-09104	0 - 0.5	11/22/1993	680	U
SS-09102	0 - 0.5	11/19/1993	17	
SS-09109	0 - 0.5	11/19/1993	2.2	U
SS-09106	0 - 0.5	11/18/1993	2.3	U
SS-09108	0 - 0.5	11/17/1993	2.1	U
SS-09110	0 - 0.5	11/17/1993	2.2	U
SS-09105	0 - 0.5	11/16/1993	3.5	UB
SS-09107	0 - 0.5	11/16/1993	8.1	U
PL2-301A	5 - 5	7/8/1992	5.8	B
PL2-301A	10 - 10	7/8/1992	2.5	U
PL2-302A	5 - 5	7/8/1992	2	U
PL2-302A	10 - 10	7/8/1992	2.6	U
PL2-303A	5 - 5	7/8/1992	2.3	U
PL2-303A	10 - 10	7/8/1992	2.5	U
PL2-303A	10 - 10	7/8/1992	2.5	U
PL2-109B	9 - 9	7/7/1992	2.5	U
PL2-109C	6 - 6	7/6/1992	1.2	U
PL2-109C	9 - 9	7/6/1992	1.3	U
PL2-105C	3 - 3	6/25/1992	2.1	U
PL2-105C	10 - 10	6/25/1992	2.6	U

South Yard Area COC Results
Methylene Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Methylene Chloride (µg/kg) - 2004 Soil Screening Level = 828 µg/kg; PMCL = 96,000 µg/kg[3]				
PL2-104B	6 - 6	6/24/1992	2.8	U
PL2-104B	11 - 11	6/24/1992	2.5	U
PL2-110C	6 - 6	6/22/1992	2.3	U
PL2-110C	9 - 9	6/22/1992	330	U
PL2-106C	7 - 7	6/18/1992	2.9	U
PL2-106C	12 - 12	6/18/1992	2.8	J
HA-284-03	2 - 2.5	4/27/1992	6	
HA-284-03	4 - 4.5	4/27/1992	7.3	
SB-284-01	4 - 4.5	4/27/1992	2.2	
SB-284-01	8 - 8.5	4/27/1992	3.1	
SB-284-02	4 - 4.5	4/27/1992	15	
SB-284-02	6 - 6.5	4/27/1992	6.1	
PL31-B1	9 - 9	3/24/1992	2.7	U
PL31-B2	8.5 - 8.5	3/24/1992	2.3	U
PL31-P1	1.8 - 1.8	3/24/1992	2	U
PL31-S1	4.6 - 4.6	3/24/1992	2.1	U
PL31-S2	5 - 5	3/24/1992	2	U
PL31-S3	5.5 - 5.5	3/24/1992	2.1	U
PL31-S4	5.9 - 5.9	3/24/1992	1.9	U
PL66-B1	5.5 - 5.5	10/28/1991	2.2	U
PL66-B1	10.5 - 10.5	10/28/1991	2.5	U
PL66-B2	5.5 - 5.5	10/28/1991	2.4	U
PL66-B2	10.5 - 10.5	10/28/1991	2.6	U
SB116-B1	5 - 5	9/13/1991	2.4	U
SB116-B1	8 - 8	9/13/1991	2.8	U
SB116-B1	9.5 - 9.5	9/13/1991	2.6	U
SB116-B2	2 - 2	9/13/1991	2.1	U
SB116-B2	7 - 7	9/13/1991	2.3	U
SB116-B2	12 - 12	9/13/1991	2.6	U
SB116-B3	2 - 2	9/13/1991	2.8	U
SB116-B3	7 - 7	9/13/1991	2.8	U
SB116-B3	12 - 12	9/13/1991	2.6	U
288-16	4 - 4	8/14/1991	1.2	B
288-17	4 - 4	8/14/1991	0.7	NB
288-18	4 - 4	8/14/1991	1.1	U
288-19	4 - 4	8/14/1991	1	J
288-20	4 - 4	8/14/1991	1	J
288-21	4 - 4	8/14/1991	0.9	J
288-22	4 - 4	8/14/1991	1.2	
288-23	4 - 4	8/14/1991	0.9	J
288-24	4 - 4	8/14/1991	1	U
288-1	3 - 3	8/13/1991	1.5	JB
288-1	8 - 8	8/13/1991	1.9	JB
288-10	1.5 - 1.5	8/13/1991	2.2	JB
288-11	0.5 - 0.5	8/13/1991	1.6	JB
288-12	0.5 - 0.5	8/13/1991	0.9	J
288-14	3 - 3	8/13/1991	1.7	JB
288-14	8 - 8	8/13/1991	1.3	JB

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Methylene Chloride (µg/kg) - 2004 Soil Screening Level = 828 µg/kg; PMCL = 96,000 µg/kg[3]				
288-2	3 - 3	8/13/1991	1.2	JB
288-2	8 - 8	8/13/1991	2	JB
288-3	3 - 3	8/13/1991	1	JB
288-4	3 - 3	8/13/1991	470	JB
288-5	1 - 1	8/13/1991	1900	JB
288-5	3 - 3	8/13/1991	1100	JB
288-6	1 - 1	8/13/1991	4.8	JB
288-6	3 - 3	8/13/1991	11	JB
288-7	3 - 3	8/13/1991	0.9	JB
288-8	3 - 3	8/13/1991	0.7	JB
288-8	8 - 8	8/13/1991	1.6	JB
288-9	1.5 - 1.5	8/13/1991	0.9	JB
PL2-115A	2 - 2	7/27/1989	1.3	JB
PL2-115A	5 - 5	7/27/1989	1.2	J
PL2-115A	8.5 - 8.5	7/27/1989	3	J
PL2-115A	10 - 10	7/27/1989	7.6	
PL2-116A	2 - 2	7/26/1989	1.5	JB
PL2-116A	5 - 5	7/26/1989	1.8	JB
PL2-116A	8.5 - 8.5	7/26/1989	1.1	JB
PL2-116A	10 - 10	7/26/1989	1.7	JB
SB291-16	2 - 2	7/26/1989	1.9	JB
SB291-16	5 - 5	7/26/1989	6.9	JB
SB291-16	9.5 - 9.5	7/26/1989	2.2	JB
SB291-17	2 - 2	7/26/1989	1.9	JB
SB291-17	5 - 5	7/26/1989	13	B
SB291-17	9.5 - 9.5	7/26/1989	3.7	JB
SB297-2	2 - 2	7/25/1989	1.7	JB
SB297-2	5 - 5	7/25/1989	1.6	JB
SB297-2	10.5 - 10.5	7/25/1989	2.4	JB
SB297-3	2 - 2	7/25/1989	2.3	JB
SB297-3	5 - 5	7/25/1989	3.6	JB
SB297-3	9.5 - 9.5	7/25/1989	0.4	JB
SB291-3	2.5 - 2.5	1/12/1989	100	B
SB291-3	7.5 - 7.5	1/12/1989	920	U
SB291-3	9.5 - 9.5	1/12/1989	59	B
SB291-4	5 - 5	1/12/1989	6.7	U
SB291-5	5 - 5	1/12/1989	9.3	U
SB291-6	2.5 - 7.5	1/12/1989	470	B
SB291-9	2.5 - 2.5	1/12/1989	6.6	J
SB291-9	5 - 5	1/12/1989	16	U
SB291-9	9.5 - 9.5	1/12/1989	3.7	J
PL2-117A	7.5 - 7.5	1/11/1989	1300	U
SB291-10	2.5 - 2.5	1/11/1989	7.8	U
SB291-8	5 - 5	1/11/1989	490	U
SB291-8	10 - 10	1/11/1989	470	U
PL2-112A	5.5 - 5.5	1/10/1989	14	J
PL2-114A	8 - 8	1/10/1989	5	
PL2-114A	10.5 - 10.5	1/10/1989	530	U

South Yard Area COC Results
Methylene Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Methylene Chloride (µg/kg) - 2004 Soil Screening Level = 828 µg/kg; PMCL = 96,000 µg/kg[3]				
PL2-101A	11 - 11	10/28/1985	30	
PL2-103A	4 - 4	10/28/1985	27	
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	120	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Tetrachloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Tetrachloroethene (µg/kg) - 2004 Soil Screening Level = 8.72 µg/kg; PMCL = 890 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1/1/1900	U
DP-SY-01	4 - 5	3/8/2005	1/1/1900	U
DP-SY-01	9 - 10	3/8/2005	1/1/1900	U
DP-SY-02	0 - 1	3/7/2005	1/1/1900	U
DP-SY-02	4 - 5	3/7/2005	1/1/1900	U
DP-SY-02	9 - 10	3/7/2005	1/1/1900	U
DP-SY-03	0 - 1	3/7/2005	1/2/1900	
DP-SY-03	4 - 5	3/7/2005	1/3/1900	
DP-SY-03	9 - 10	3/7/2005	1/1/1900	U
DP-SY-04	0 - 1	3/7/2005	1/1/1900	
DP-SY-04	4 - 5	3/7/2005	1/1/1900	
DP-SY-04	9 - 10	3/7/2005	1/1/1900	U
DP-SY-05	0 - 1	3/7/2005	4/19/1900	
DP-SY-05	4 - 5	3/7/2005	2/15/1900	
DP-SY-05	9 - 10	3/7/2005	2/26/1900	
DP-SY-06	0 - 1	3/7/2005	1/1/1900	U
DP-SY-06	4 - 5	3/7/2005	1/3/1900	
DP-SY-06	9 - 10	3/7/2005	1/1/1900	U
DP-SY-07	0 - 1	3/7/2005	1/1/1900	U
DP-SY-07	4 - 5	3/7/2005	1/1/1900	U
DP-SY-07	9 - 10	3/7/2005	1/1/1900	U
DP-SY-08	0 - 1	3/7/2005	1/1/1900	U
DP-SY-08	4 - 5	3/7/2005	1/1/1900	U
DP-SY-08	4 - 5	3/7/2005	1/1/1900	U
DP-SY-08	9 - 10	3/7/2005	1/1/1900	U
DP-SY-09	0 - 1	3/8/2005	1/1/1900	U
DP-SY-09	4 - 5	3/8/2005	1/1/1900	U
DP-SY-09	9 - 10	3/8/2005	1/1/1900	U
DP-SY-10	0 - 1	3/8/2005	1/1/1900	U
DP-SY-10	4 - 5	3/8/2005	1/2/1900	
DP-SY-10	9 - 10	3/8/2005	1/1/1900	U
DP-SY-11	0 - 1	3/8/2005	1/3/1900	
DP-SY-11	4 - 5	3/8/2005	1/1/1900	U
DP-SY-11	9 - 10	3/8/2005	1/1/1900	U
DP-SY-12	0 - 1	3/8/2005	1/1/1900	U
DP-SY-12	4 - 5	3/8/2005	1/1/1900	U
DP-SY-12	9 - 10	3/8/2005	1/1/1900	U
PL2-601A	0 - 1.5	3/1/2005	1/1/1900	U
PL2-601A	3.5 - 5	3/1/2005	1/1/1900	U
PL2-601A	8.5 - 10	3/1/2005	1/1/1900	U
PL2-602A	0 - 1.5	3/1/2005	1/1/1900	U
PL2-602A	3.5 - 5	3/1/2005	1/3/1900	
PL2-602A	8.5 - 10	3/1/2005	1/1/1900	U
PL2-603A	0 - 1.5	2/28/2005	1/1/1900	U
PL2-603A	3.5 - 5	2/28/2005	1/1/1900	U
PL2-603A	8.5 - 10	2/28/2005	1/1/1900	U
SB-08334	4 - 5	4/23/2002	1/1/1900	U
SB-08334	7.5 - 8.5	4/23/2002	1/1/1900	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Tetrachloroethene (µg/kg) - 2004 Soil Screening Level = 8.72 µg/kg; PMCL = 890 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1/1/1900	U
SB-08335	9 - 10	4/23/2002	1/1/1900	U
SB-08332	4 - 5	4/15/2002	1/1/1900	U
SB-08332	4 - 5	4/15/2002	1/1/1900	U
SB-08332	9 - 10	4/15/2002	1/1/1900	U
SB-08333	4 - 5	4/15/2002	1/1/1900	U
SB-08333	9 - 10	4/15/2002	1/1/1900	U
SB-08716	3 - 5	11/25/1998	1/1/1900	U
SB-08716	8 - 10	11/25/1998	1/1/1900	U
SB-08717	3 - 5	11/25/1998	1/1/1900	U
SB-08717	8 - 10	11/25/1998	1/1/1900	U
SB-08718	3 - 5	11/25/1998	1/1/1900	U
SB-08718	8 - 10	11/25/1998	1/1/1900	U
SB-08719	3 - 5	11/25/1998	1/1/1900	U
SB-08719	8 - 10	11/25/1998	1/1/1900	U
SB-08720	3 - 5	11/25/1998	1/1/1900	U
SB-08720	8 - 10	11/25/1998	1/1/1900	U
SB-08721	3 - 5	11/25/1998	1/1/1900	U
SB-08721	8 - 10	11/25/1998	1/1/1900	U
SB-08722	3 - 5	11/25/1998	1/1/1900	U
SB-08722	8 - 10	11/25/1998	1/1/1900	U
SB-08723	3 - 5	11/25/1998	1/1/1900	U
SB-08723	8 - 10	11/25/1998	1/1/1900	U
SB-08724	3 - 5	11/25/1998	1/1/1900	U
SB-08724	8 - 10	11/25/1998	1/1/1900	U
SB-08930	3 - 5	11/24/1998	1/1/1900	U
SB-08930	8 - 10	11/24/1998	1/1/1900	U
SB-08931	3 - 5	11/24/1998	1/7/1900	
SB-08931	8 - 10	11/24/1998	1/1/1900	U
SB-08932	3 - 5	11/24/1998	1/8/1900	
SB-08932	8 - 10	11/24/1998	1/1/1900	U
SB-08933	3 - 5	11/24/1998	1/9/1900	
SB-08933	8 - 10	11/24/1998	1/1/1900	U
SB-08934	3 - 5	11/24/1998	1/17/1900	
SB-08934	8 - 10	11/24/1998	1/8/1900	U
SB-08935	3 - 5	11/24/1998	1/1/1900	
SB-08935	8 - 10	11/24/1998	1/1/1900	U
SB-08936	3 - 5	11/24/1998	1/1/1900	U
SB-08936	8 - 10	11/24/1998	1/1/1900	U
SB-08937	3 - 5	11/24/1998	1/1/1900	U
SB-08937	8 - 10	11/24/1998	1/1/1900	U
SB-08938	3 - 5	11/24/1998	1/1/1900	U
SB-08938	8 - 10	11/24/1998	1/1/1900	U
SB-08939	3 - 5	11/24/1998	1/1/1900	U
SB-08939	8 - 10	11/24/1998	1/1/1900	U
SB-08940	3 - 5	11/24/1998	1/1/1900	
SB-08940	8 - 10	11/24/1998	1/1/1900	U
SB-08022	10 - 11	3/19/1998	1/1/1900	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Tetrachloroethene (µg/kg) - 2004 Soil Screening Level = 8.72 µg/kg; PMCL = 890 µg/kg[3]				
SB-08020	10 - 11	3/18/1998	1/1/1900	U
SB-08021	9 - 10	3/18/1998	1/1/1900	U
SB-08009	0.6 - 0.6	2/16/1995	1/1/1900	U
SB-08009	6 - 6	2/16/1995	1/3/1900	
SB-08010	0.5 - 0.5	2/16/1995	1/5/1900	
SB-08010	6 - 6	2/16/1995	3/17/1900	
SB-08008	3.5 - 3.5	2/15/1995	1/1/1900	U
SB-08008	6.5 - 6.5	2/15/1995	1/1/1900	U
SB-08008	11.5 - 11.5	2/15/1995	1/1/1900	U
SB-08005	11 - 11	9/22/1994	1/1/1900	U
SB-08604	1.5 - 1.5	9/19/1994	1/1/1900	U
SB-08604	6 - 6	9/19/1994	1/1/1900	U
SB-08604	9 - 9	9/19/1994	1/1/1900	U
SB-08301	1.5 - 1.5	9/3/1994	1/1/1900	U
SB-08301	4.5 - 4.5	9/3/1994	1/1/1900	U
SB-08301	11.5 - 11.5	9/3/1994	1/1/1900	U
SB-08302	2 - 2	9/3/1994	1/1/1900	U
SB-08302	5 - 5	9/3/1994	1/2/1900	
SB-08302	11 - 11	9/3/1994	1/1/1900	U
SB-08905	5 - 5	8/24/1994	1/2/1900	
SB-08905	7.5 - 7.5	8/24/1994	1/1/1900	U
SB-08905	10 - 10	8/24/1994	1/1/1900	U
SB-08917	1 - 1	8/23/1994	1/1/1900	U
SB-08917	7.5 - 7.5	8/23/1994	1/1/1900	U
SB-08917	10 - 10	8/23/1994	1/1/1900	U
SB-08920	1 - 1	8/23/1994	1/1/1900	U
SB-08920	7.5 - 7.5	8/23/1994	1/1/1900	U
SB-08920	10 - 10	8/23/1994	1/1/1900	U
SB-08922	1 - 1	8/19/1994	1/1/1900	U
SB-08922	1 - 1	8/19/1994	1/1/1900	U
SB-08922	5 - 5	8/19/1994	2/29/1900	
SB-08922	10 - 10	8/19/1994	1/1/1900	U
SB-08919	2.5 - 2.5	8/18/1994	1/1/1900	U
SB-08919	7.5 - 7.5	8/18/1994	1/1/1900	U
SB-08919	10 - 10	8/18/1994	1/1/1900	U
SB-08924	2.5 - 2.5	8/18/1994	1/1/1900	U
SB-08924	2.5 - 2.5	8/18/1994	1/1/1900	U
SB-08924	7.5 - 7.5	8/18/1994	1/1/1900	U
SB-08924	10 - 10	8/18/1994	1/1/1900	U
SB-08915	2 - 2	8/17/1994	1/1/1900	
SB-08915	5 - 5	8/17/1994	1/1/1900	U
SB-08915	7.5 - 7.5	8/17/1994	1/23/1900	
SB-09102	1 - 1	8/16/1994	1/1/1900	U
SB-09102	1 - 1	8/16/1994	1/1/1900	U
SB-09102	5 - 5	8/16/1994	1/1/1900	U
SB-09102	7.5 - 7.5	8/16/1994	1/1/1900	U
SB-09103	2.5 - 2.5	8/16/1994	1/1/1900	U
SB-09103	7.5 - 7.5	8/16/1994	1/4/1900	

South Yard Area COC Results
Tetrachloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Tetrachloroethene (µg/kg) - 2004 Soil Screening Level = 8.72 µg/kg; PMCL = 890 µg/kg[3]				
SB-09103	10 - 10	8/16/1994	1/1/1900	U
SB-09104	1 - 1	8/16/1994	1/1/1900	U
SB-09104	7.5 - 7.5	8/16/1994	1/1/1900	U
SB-09104	10 - 10	8/16/1994	1/1/1900	U
SB-10401	10 - 10	3/15/1994	5/29/1900	U
SB-08201	6.5 - 6.5	12/21/1993	1/1/1900	U
SB-08201	8 - 8	12/21/1993	1/1/1900	U
SB-08201	11 - 11	12/21/1993	1/1/1900	
SB-08601	1.5 - 1.5	12/20/1993	1/1/1900	U
SB-08601	7 - 7	12/20/1993	1/1/1900	U
SB-08601	11 - 11	12/20/1993	1/1/1900	U
SB-08303	5 - 5	12/13/1993	1/1/1900	U
SB-08903	7.5 - 7.5	12/13/1993	1/1/1900	U
SB-08901	5 - 5	12/11/1993	1/5/1900	
SB-08901	7.5 - 7.5	12/11/1993	1/1/1900	U
PL2-111A	1 - 1	12/9/1993	1/1/1900	U
PL2-111A	7.5 - 7.5	12/9/1993	1/1/1900	U
SB-08602	1 - 1	12/9/1993	1/1/1900	U
SB-08602	7.5 - 7.5	12/9/1993	1/1/1900	U
SB-08904	1 - 1	12/9/1993	1/1/1900	U
SB-08904	7.5 - 7.5	12/9/1993	1/1/1900	U
SB-28201	1 - 1	12/9/1993	1/1/1900	U
SB-28201	7.5 - 7.5	12/9/1993	1/1/1900	U
SS-09101	0 - 0.5	11/29/1993	1/16/1900	
SS-09112	0 - 0.5	11/29/1993	6/8/1902	
SS-09103	0 - 0.5	11/24/1993	1/3/1900	
SS-09111	0 - 0.5	11/23/1993	1/1/1900	U
SS-09111	0 - 0.5	11/23/1993	1/1/1900	U
SS-09104	0 - 0.5	11/22/1993	1/12/1909	
SS-09102	0 - 0.5	11/19/1993	7/28/1900	D
SS-09109	0 - 0.5	11/19/1993	1/1/1900	U
SS-09106	0 - 0.5	11/18/1993	1/7/1900	
SS-09108	0 - 0.5	11/17/1993	1/8/1900	
SS-09110	0 - 0.5	11/17/1993	1/11/1900	
SS-09105	0 - 0.5	11/16/1993	11/15/1900	D
SS-09107	0 - 0.5	11/16/1993	4/1/1900	
PL2-301A	5 - 5	7/8/1992	1/1/1900	U
PL2-301A	10 - 10	7/8/1992	1/1/1900	U
PL2-302A	5 - 5	7/8/1992	1/3/1900	
PL2-302A	10 - 10	7/8/1992	1/1/1900	U
PL2-303A	5 - 5	7/8/1992	1/1/1900	U
PL2-303A	10 - 10	7/8/1992	1/1/1900	U
PL2-303A	10 - 10	7/8/1992	1/1/1900	U
PL2-109B	9 - 9	7/7/1992	1/3/1900	
PL2-109C	6 - 6	7/6/1992	1/6/1900	
PL2-109C	9 - 9	7/6/1992	1/1/1900	U
PL2-105C	3 - 3	6/25/1992	1/1/1900	
PL2-105C	10 - 10	6/25/1992	1/1/1900	U

South Yard Area COC Results
Tetrachloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Tetrachloroethene (µg/kg) - 2004 Soil Screening Level = 8.72 µg/kg; PMCL = 890 µg/kg[3]				
PL2-104B	6 - 6	6/24/1992	1/1/1900	U
PL2-104B	11 - 11	6/24/1992	1/1/1900	U
PL2-110C	6 - 6	6/22/1992	1/1/1900	U
PL2-110C	9 - 9	6/22/1992	6/8/1900	U
PL2-106C	7 - 7	6/18/1992	1/10/1900	
PL2-106C	12 - 12	6/18/1992	1/1/1900	U
HA-284-03	2 - 2.5	4/27/1992	1/1/1900	U
HA-284-03	4 - 4.5	4/27/1992	1/1/1900	U
SB-284-01	4 - 4.5	4/27/1992	1/1/1900	
SB-284-01	8 - 8.5	4/27/1992	1/1/1900	U
SB-284-02	4 - 4.5	4/27/1992	1/1/1900	U
SB-284-02	6 - 6.5	4/27/1992	1/1/1900	U
PL31-B1	9 - 9	3/24/1992	1/1/1900	U
PL31-B2	8.5 - 8.5	3/24/1992	1/1/1900	U
PL31-P1	1.8 - 1.8	3/24/1992	1/1/1900	U
PL31-S1	4.6 - 4.6	3/24/1992	1/1/1900	U
PL31-S2	5 - 5	3/24/1992	1/1/1900	U
PL31-S3	5.5 - 5.5	3/24/1992	1/1/1900	U
PL31-S4	5.9 - 5.9	3/24/1992	1/1/1900	
PL66-B1	5.5 - 5.5	10/28/1991	1/1/1900	
PL66-B1	10.5 - 10.5	10/28/1991	1/1/1900	U
PL66-B2	5.5 - 5.5	10/28/1991	1/10/1900	
PL66-B2	10.5 - 10.5	10/28/1991	1/5/1900	
SB116-B1	5 - 5	9/13/1991	1/1/1900	U
SB116-B1	8 - 8	9/13/1991	1/1/1900	
SB116-B1	9.5 - 9.5	9/13/1991	1/1/1900	U
SB116-B2	2 - 2	9/13/1991	1/1/1900	U
SB116-B2	7 - 7	9/13/1991	1/4/1900	
SB116-B2	12 - 12	9/13/1991	1/1/1900	U
SB116-B3	2 - 2	9/13/1991	1/2/1900	
SB116-B3	7 - 7	9/13/1991	1/9/1900	
SB116-B3	12 - 12	9/13/1991	1/1/1900	U
288-16	4 - 4	8/14/1991	1/0/1900	N
288-17	4 - 4	8/14/1991	1/14/1900	
288-18	4 - 4	8/14/1991	1/1/1900	U
288-19	4 - 4	8/14/1991	1/0/1900	N
288-20	4 - 4	8/14/1991	1/1/1900	U
288-21	4 - 4	8/14/1991	1/1/1900	U
288-22	4 - 4	8/14/1991	1/1/1900	U
288-23	4 - 4	8/14/1991	1/1/1900	U
288-24	4 - 4	8/14/1991	1/1/1900	U
288-1	3 - 3	8/13/1991	1/1/1900	U
288-1	8 - 8	8/13/1991	1/1/1900	U
288-10	1.5 - 1.5	8/13/1991	1/4/1900	
288-11	0.5 - 0.5	8/13/1991	1/2/1900	
288-12	0.5 - 0.5	8/13/1991	1/1/1900	U
288-14	3 - 3	8/13/1991	1/29/1900	
288-14	8 - 8	8/13/1991	1/1/1900	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Tetrachloroethene (µg/kg) - 2004 Soil Screening Level = 8.72 µg/kg; PMCL = 890 µg/kg[3]				
288-2	3 - 3	8/13/1991	1/1/1900	U
288-2	8 - 8	8/13/1991	1/1/1900	
288-3	3 - 3	8/13/1991	1/1/1900	U
288-4	3 - 3	8/13/1991	10/31/1901	U
288-5	1 - 1	8/13/1991	10/31/1903	U
288-5	3 - 3	8/13/1991	7/23/1903	U
288-6	1 - 1	8/13/1991	2/16/1900	
288-6	3 - 3	8/13/1991	8/17/1900	
288-7	3 - 3	8/13/1991	1/1/1900	U
288-8	3 - 3	8/13/1991	1/1/1900	U
288-8	8 - 8	8/13/1991	1/1/1900	J
288-9	1.5 - 1.5	8/13/1991	1/1/1900	U
PL2-115A	2 - 2	7/27/1989	1/0/1900	J
PL2-115A	5 - 5	7/27/1989	1/2/1900	
PL2-115A	8.5 - 8.5	7/27/1989	1/0/1900	U
PL2-115A	10 - 10	7/27/1989	1/0/1900	U
PL2-116A	2 - 2	7/26/1989	1/0/1900	U
PL2-116A	5 - 5	7/26/1989	1/0/1900	U
PL2-116A	8.5 - 8.5	7/26/1989	1/0/1900	U
PL2-116A	10 - 10	7/26/1989	1/0/1900	U
SB291-16	2 - 2	7/26/1989	1/0/1900	U
SB291-16	5 - 5	7/26/1989	1/2/1900	U
SB291-16	9.5 - 9.5	7/26/1989	1/0/1900	U
SB291-17	2 - 2	7/26/1989	1/0/1900	U
SB291-17	5 - 5	7/26/1989	2/10/1900	
SB291-17	9.5 - 9.5	7/26/1989	1/0/1900	U
SB297-2	2 - 2	7/25/1989	1/0/1900	U
SB297-2	5 - 5	7/25/1989	1/0/1900	
SB297-2	10.5 - 10.5	7/25/1989	1/0/1900	U
SB297-3	2 - 2	7/25/1989	1/0/1900	U
SB297-3	5 - 5	7/25/1989	1/1/1900	
SB297-3	9.5 - 9.5	7/25/1989	1/0/1900	U
SB291-3	2.5 - 2.5	1/12/1989	12/15/1900	
SB291-3	7.5 - 7.5	1/12/1989	5/19/1900	U
SB291-3	9.5 - 9.5	1/12/1989	1/3/1900	
SB291-4	5 - 5	1/12/1989	1/7/1900	
SB291-5	5 - 5	1/12/1989	1/4/1900	
SB291-6	2.5 - 7.5	1/12/1989	3/28/1900	
SB291-9	2.5 - 2.5	1/12/1989	1/26/1900	
SB291-9	5 - 5	1/12/1989	1/4/1900	
SB291-9	9.5 - 9.5	1/12/1989	1/0/1900	U
PL2-117A	7.5 - 7.5	1/11/1989	7/8/1900	U
SB291-10	2.5 - 2.5	1/11/1989	1/30/1900	
SB291-8	5 - 5	1/11/1989	3/9/1900	U
SB291-8	10 - 10	1/11/1989	3/8/1900	U
PL2-112A	5.5 - 5.5	1/10/1989	11/4/1906	
PL2-114A	8 - 8	1/10/1989	1/1/1900	U
PL2-114A	10.5 - 10.5	1/10/1989	3/8/1900	U

South Yard Area COC Results
Tetrachloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Tetrachloroethene (µg/kg) - 2004 Soil Screening Level = 8.72 µg/kg; PMCL = 890 µg/kg[3]				
PL2-101A	11 - 11	10/28/1985	1/5/1900	U
PL2-103A	4 - 4	10/28/1985	1/5/1900	U
PL2-103A	7 - 7	10/28/1985	1/5/1900	U
PL2-103A	10 - 10	10/28/1985	1/5/1900	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Toluene (µg/kg) - 2004 Soil Screening Level = 19,000 µg/kg; PMCL = 500,000 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	1.2	U
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	1	U
DP-SY-03	0 - 1	3/7/2005	1.3	U
DP-SY-03	4 - 5	3/7/2005	1.1	U
DP-SY-03	9 - 10	3/7/2005	1	U
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	1.4	U
DP-SY-05	0 - 1	3/7/2005	1	U
DP-SY-05	4 - 5	3/7/2005	1.2	U
DP-SY-05	9 - 10	3/7/2005	1.3	U
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.1	U
DP-SY-10	4 - 5	3/8/2005	1.1	U
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	1.1	U
DP-SY-11	4 - 5	3/8/2005	1.1	U
DP-SY-11	9 - 10	3/8/2005	2.2	
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	1.2	U
PL2-601A	0 - 1.5	3/1/2005	1	U
PL2-601A	3.5 - 5	3/1/2005	1	U
PL2-601A	8.5 - 10	3/1/2005	1.2	U
PL2-602A	0 - 1.5	3/1/2005	1	U
PL2-602A	3.5 - 5	3/1/2005	1.1	U
PL2-602A	8.5 - 10	3/1/2005	8.5	
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Toluene (µg/kg) - 2004 Soil Screening Level = 19,000 µg/kg; PMCL = 500,000 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08716	3 - 5	11/25/1998	4.2	
SB-08716	8 - 10	11/25/1998	1.4	U
SB-08717	3 - 5	11/25/1998	4.2	
SB-08717	8 - 10	11/25/1998	1.4	U
SB-08718	3 - 5	11/25/1998	6.3	
SB-08718	8 - 10	11/25/1998	4.1	
SB-08719	3 - 5	11/25/1998	2.1	
SB-08719	8 - 10	11/25/1998	2.1	
SB-08720	3 - 5	11/25/1998	6.2	
SB-08720	8 - 10	11/25/1998	2.5	
SB-08721	3 - 5	11/25/1998	2	
SB-08721	8 - 10	11/25/1998	1.3	U
SB-08722	3 - 5	11/25/1998	3	
SB-08722	8 - 10	11/25/1998	1.4	U
SB-08723	3 - 5	11/25/1998	1.4	
SB-08723	8 - 10	11/25/1998	1.3	U
SB-08724	3 - 5	11/25/1998	1.4	
SB-08724	8 - 10	11/25/1998	1.5	U
SB-08930	3 - 5	11/24/1998	1.1	U
SB-08930	8 - 10	11/24/1998	1.2	U
SB-08931	3 - 5	11/24/1998	1.4	
SB-08931	8 - 10	11/24/1998	1.2	U
SB-08932	3 - 5	11/24/1998	1.8	
SB-08932	8 - 10	11/24/1998	1.2	U
SB-08933	3 - 5	11/24/1998	1.8	
SB-08933	8 - 10	11/24/1998	1.2	U
SB-08934	3 - 5	11/24/1998	3.9	
SB-08934	8 - 10	11/24/1998	8.8	U
SB-08935	3 - 5	11/24/1998	1.1	
SB-08935	8 - 10	11/24/1998	1.3	U
SB-08936	3 - 5	11/24/1998	1.1	U
SB-08936	8 - 10	11/24/1998	2	
SB-08937	3 - 5	11/24/1998	2.2	
SB-08937	8 - 10	11/24/1998	1.7	
SB-08938	3 - 5	11/24/1998	1.1	U
SB-08938	8 - 10	11/24/1998	2	
SB-08939	3 - 5	11/24/1998	1.2	U
SB-08939	8 - 10	11/24/1998	2.5	
SB-08940	3 - 5	11/24/1998	1.1	U
SB-08940	8 - 10	11/24/1998	1.6	
SB-08022	10 - 11	3/19/1998	1.4	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Toluene (µg/kg) - 2004 Soil Screening Level = 19,000 µg/kg; PMCL = 500,000 µg/kg[3]				
SB-08020	10 - 11	3/18/1998	1.2	U
SB-08021	9 - 10	3/18/1998	1.2	U
SB-08009	0.6 - 0.6	2/16/1995	1.1	U
SB-08009	6 - 6	2/16/1995	1.2	U
SB-08010	0.5 - 0.5	2/16/1995	1	U
SB-08010	6 - 6	2/16/1995	1.3	U
SB-08008	3.5 - 3.5	2/15/1995	1.1	U
SB-08008	6.5 - 6.5	2/15/1995	1.1	U
SB-08008	11.5 - 11.5	2/15/1995	1.3	U
SB-08005	11 - 11	9/22/1994	1.3	U
SB-08604	1.5 - 1.5	9/19/1994	1.1	U
SB-08604	6 - 6	9/19/1994	1.3	U
SB-08604	9 - 9	9/19/1994	1.3	U
SB-08301	1.5 - 1.5	9/3/1994	1.2	U
SB-08301	4.5 - 4.5	9/3/1994	1.5	U
SB-08301	11.5 - 11.5	9/3/1994	1.3	U
SB-08302	2 - 2	9/3/1994	1.1	U
SB-08302	5 - 5	9/3/1994	1.3	U
SB-08302	11 - 11	9/3/1994	1.3	U
SB-08905	5 - 5	8/24/1994	12	
SB-08905	7.5 - 7.5	8/24/1994	1.2	
SB-08905	10 - 10	8/24/1994	3.2	
SB-08917	1 - 1	8/23/1994	1	U
SB-08917	7.5 - 7.5	8/23/1994	190	
SB-08917	10 - 10	8/23/1994	20	
SB-08920	1 - 1	8/23/1994	1	U
SB-08920	7.5 - 7.5	8/23/1994	1.2	U
SB-08920	10 - 10	8/23/1994	1.3	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	5 - 5	8/19/1994	1.6	
SB-08922	10 - 10	8/19/1994	1.3	U
SB-08919	2.5 - 2.5	8/18/1994	1.1	U
SB-08919	7.5 - 7.5	8/18/1994	1.3	U
SB-08919	10 - 10	8/18/1994	1.2	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	7.5 - 7.5	8/18/1994	650	D
SB-08924	10 - 10	8/18/1994	60	
SB-08915	2 - 2	8/17/1994	2.6	
SB-08915	5 - 5	8/17/1994	1.3	
SB-08915	7.5 - 7.5	8/17/1994	9.7	
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	5 - 5	8/16/1994	1.7	
SB-09102	7.5 - 7.5	8/16/1994	1.4	U
SB-09103	2.5 - 2.5	8/16/1994	1	U
SB-09103	7.5 - 7.5	8/16/1994	1.4	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Toluene (µg/kg) - 2004 Soil Screening Level = 19,000 µg/kg; PMCL = 500,000 µg/kg[3]				
SB-09103	10 - 10	8/16/1994	1.3	U
SB-09104	1 - 1	8/16/1994	1	U
SB-09104	7.5 - 7.5	8/16/1994	620	D
SB-09104	10 - 10	8/16/1994	3.6	
SB-10401	10 - 10	3/15/1994	150	U
SB-08201	6.5 - 6.5	12/21/1993	1.1	U
SB-08201	8 - 8	12/21/1993	1.3	U
SB-08201	11 - 11	12/21/1993	1.3	U
SB-08601	1.5 - 1.5	12/20/1993	1.2	
SB-08601	7 - 7	12/20/1993	1.1	U
SB-08601	11 - 11	12/20/1993	1.3	U
SB-08303	5 - 5	12/13/1993	1.3	U
SB-08903	7.5 - 7.5	12/13/1993	1.2	U
SB-08901	5 - 5	12/11/1993	1.4	U
SB-08901	7.5 - 7.5	12/11/1993	1.3	U
PL2-111A	1 - 1	12/9/1993	1.1	U
PL2-111A	7.5 - 7.5	12/9/1993	1.3	U
SB-08602	1 - 1	12/9/1993	1	U
SB-08602	7.5 - 7.5	12/9/1993	1.5	U
SB-08904	1 - 1	12/9/1993	1.1	U
SB-08904	7.5 - 7.5	12/9/1993	1.3	U
SB-28201	1 - 1	12/9/1993	1.2	U
SB-28201	7.5 - 7.5	12/9/1993	1.1	U
SS-09101	0 - 0.5	11/29/1993	1.2	U
SS-09112	0 - 0.5	11/29/1993	210	N
SS-09103	0 - 0.5	11/24/1993	1.1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09104	0 - 0.5	11/22/1993	340	U
SS-09102	0 - 0.5	11/19/1993	1.9	
SS-09109	0 - 0.5	11/19/1993	1.1	U
SS-09106	0 - 0.5	11/18/1993	1.2	U
SS-09108	0 - 0.5	11/17/1993	1.2	
SS-09110	0 - 0.5	11/17/1993	1.1	U
SS-09105	0 - 0.5	11/16/1993	6.6	
SS-09107	0 - 0.5	11/16/1993	4.1	U
EX-1	8 - 8	10/23/1992	650000	
EX-3	8 - 8	10/23/1992	9900	
EX-5	10.5 - 10.5	10/23/1992	71	U
PL2-301A	5 - 5	7/8/1992	1.3	U
PL2-301A	10 - 10	7/8/1992	1.2	U
PL2-302A	5 - 5	7/8/1992	1	U
PL2-302A	10 - 10	7/8/1992	1.3	U
PL2-303A	5 - 5	7/8/1992	1.2	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-109B	9 - 9	7/7/1992	5.1	
PL2-109C	6 - 6	7/6/1992	2.1	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Toluene (µg/kg) - 2004 Soil Screening Level = 19,000 µg/kg; PMCL = 500,000 µg/kg[3]				
PL2-109C	9 - 9	7/6/1992	1.3	U
PL2-105C	3 - 3	6/25/1992	1	U
PL2-105C	10 - 10	6/25/1992	1.3	U
PL2-104B	6 - 6	6/24/1992	1.4	U
PL2-104B	11 - 11	6/24/1992	1.3	U
PL2-110C	6 - 6	6/22/1992	1.1	U
PL2-110C	9 - 9	6/22/1992	11000	
PL2-106C	7 - 7	6/18/1992	1.4	U
PL2-106C	12 - 12	6/18/1992	1.4	U
HA-284-03	2 - 2.5	4/27/1992	1	U
HA-284-03	4 - 4.5	4/27/1992	1.7	U
SB-284-01	4 - 4.5	4/27/1992	2.9	
SB-284-01	8 - 8.5	4/27/1992	2.1	
SB-284-02	4 - 4.5	4/27/1992	1.4	
SB-284-02	6 - 6.5	4/27/1992	1.2	U
PL31-B1	9 - 9	3/24/1992	1.4	U
PL31-B2	8.5 - 8.5	3/24/1992	1.1	U
PL31-P1	1.8 - 1.8	3/24/1992	1	U
PL31-S1	4.6 - 4.6	3/24/1992	1.1	U
PL31-S2	5 - 5	3/24/1992	1	U
PL31-S3	5.5 - 5.5	3/24/1992	1	U
PL31-S4	5.9 - 5.9	3/24/1992	1	U
PL66-B1	5.5 - 5.5	10/28/1991	1.1	U
PL66-B1	10.5 - 10.5	10/28/1991	1.3	U
PL66-B2	5.5 - 5.5	10/28/1991	1	M
PL66-B2	10.5 - 10.5	10/28/1991	1.3	U
SB116-B1	5 - 5	9/13/1991	1.2	U
SB116-B1	8 - 8	9/13/1991	1.4	U
SB116-B1	9.5 - 9.5	9/13/1991	1.3	U
SB116-B2	2 - 2	9/13/1991	1	U
SB116-B2	7 - 7	9/13/1991	1.1	U
SB116-B2	12 - 12	9/13/1991	1.3	U
SB116-B3	2 - 2	9/13/1991	1.4	U
SB116-B3	7 - 7	9/13/1991	1.3	N
SB116-B3	12 - 12	9/13/1991	1.3	U
288-16	4 - 4	8/14/1991	1	U
288-17	4 - 4	8/14/1991	1.7	
288-18	4 - 4	8/14/1991	1.1	U
288-19	4 - 4	8/14/1991	33	
288-20	4 - 4	8/14/1991	1	U
288-21	4 - 4	8/14/1991	1	U
288-22	4 - 4	8/14/1991	1.1	
288-23	4 - 4	8/14/1991	1.1	U
288-24	4 - 4	8/14/1991	1	U
288-1	3 - 3	8/13/1991	1.4	
288-1	8 - 8	8/13/1991	13	
288-10	1.5 - 1.5	8/13/1991	1.2	U
288-11	0.5 - 0.5	8/13/1991	3.2	

South Yard Area COC Results
Toluene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Toluene (µg/kg) - 2004 Soil Screening Level = 19,000 µg/kg; PMCL = 500,000 µg/kg[3]				
288-12	0.5 - 0.5	8/13/1991	1	U
288-14	3 - 3	8/13/1991	4.6	
288-14	8 - 8	8/13/1991	14	
288-2	3 - 3	8/13/1991	1	U
288-2	8 - 8	8/13/1991	2	
288-3	3 - 3	8/13/1991	1	U
288-4	3 - 3	8/13/1991	670	U
288-5	1 - 1	8/13/1991	1400	
288-5	3 - 3	8/13/1991	3100	
288-6	1 - 1	8/13/1991	5.3	U
288-6	3 - 3	8/13/1991	10	U
288-7	3 - 3	8/13/1991	1.7	
288-8	3 - 3	8/13/1991	1	U
288-8	8 - 8	8/13/1991	15	
288-9	1.5 - 1.5	8/13/1991	1.2	U
PL2-115A	2 - 2	7/27/1989	0.9	U
PL2-115A	5 - 5	7/27/1989	2.5	
PL2-115A	8.5 - 8.5	7/27/1989	11	
PL2-115A	10 - 10	7/27/1989	11	
PL2-116A	2 - 2	7/26/1989	0.8	U
PL2-116A	5 - 5	7/26/1989	0.9	U
PL2-116A	8.5 - 8.5	7/26/1989	1	U
PL2-116A	10 - 10	7/26/1989	1	U
SB291-16	2 - 2	7/26/1989	0.6	N
SB291-16	5 - 5	7/26/1989	140	
SB291-16	9.5 - 9.5	7/26/1989	1.1	
SB291-17	2 - 2	7/26/1989	0.8	U
SB291-17	5 - 5	7/26/1989	3	
SB291-17	9.5 - 9.5	7/26/1989	0.7	N
SB297-2	2 - 2	7/25/1989	1.2	
SB297-2	5 - 5	7/25/1989	0.9	U
SB297-2	10.5 - 10.5	7/25/1989	0.8	N
SB297-3	2 - 2	7/25/1989	0.8	U
SB297-3	5 - 5	7/25/1989	4.3	
SB297-3	9.5 - 9.5	7/25/1989	1	U
SB291-3	2.5 - 2.5	1/12/1989	53	
SB291-3	7.5 - 7.5	1/12/1989	330	
SB291-3	9.5 - 9.5	1/12/1989	8.8	
SB291-4	5 - 5	1/12/1989	1.7	
SB291-5	5 - 5	1/12/1989	19	
SB291-6	2.5 - 7.5	1/12/1989	57	
SB291-9	2.5 - 2.5	1/12/1989	1.9	U
SB291-9	5 - 5	1/12/1989	4.3	
SB291-9	9.5 - 9.5	1/12/1989	8.6	
PL2-117A	7.5 - 7.5	1/11/1989	530	
SB291-10	2.5 - 2.5	1/11/1989	3	
SB291-8	5 - 5	1/11/1989	320	
SB291-8	10 - 10	1/11/1989	140	

South Yard Area COC Results
Toluene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Toluene (µg/kg) - 2004 Soil Screening Level = 19,000 µg/kg; PMCL = 500,000 µg/kg[3]				
PL2-112A	5.5 - 5.5	1/10/1989	71	
PL2-114A	8 - 8	1/10/1989	4000	
PL2-114A	10.5 - 10.5	1/10/1989	5600	
PL2-101A	11 - 11	10/28/1985	5	U
PL2-103A	4 - 4	10/28/1985	5	U
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
1,1,1-Trichloroethane Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1,1-Trichloroethane (µg/kg) - 2004 Screening Level = 27,800 µg/kg; PMCL = 3,120,000 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	1.2	U
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	1	U
DP-SY-03	0 - 1	3/7/2005	1.3	U
DP-SY-03	4 - 5	3/7/2005	1.1	U
DP-SY-03	9 - 10	3/7/2005	1	U
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	1.4	U
DP-SY-05	0 - 1	3/7/2005	1	U
DP-SY-05	4 - 5	3/7/2005	1.2	U
DP-SY-05	9 - 10	3/7/2005	1.3	U
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.1	U
DP-SY-10	4 - 5	3/8/2005	1.1	U
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	1.2	
DP-SY-11	4 - 5	3/8/2005	1.1	U
DP-SY-11	9 - 10	3/8/2005	1.4	U
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	1.2	U
PL2-601A	0 - 1.5	3/1/2005	1	U
PL2-601A	3.5 - 5	3/1/2005	1	U
PL2-601A	8.5 - 10	3/1/2005	1.2	U
PL2-602A	0 - 1.5	3/1/2005	1	U
PL2-602A	3.5 - 5	3/1/2005	1.1	U
PL2-602A	8.5 - 10	3/1/2005	1.4	U
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1,1-Trichloroethane (µg/kg) - 2004 Screening Level = 27,800 µg/kg; PMCL = 3,120,000 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08716	3 - 5	11/25/1998	1.4	U
SB-08716	8 - 10	11/25/1998	1.4	U
SB-08717	3 - 5	11/25/1998	1.3	U
SB-08717	8 - 10	11/25/1998	1.4	U
SB-08718	3 - 5	11/25/1998	1.3	U
SB-08718	8 - 10	11/25/1998	1.3	U
SB-08719	3 - 5	11/25/1998	1.1	U
SB-08719	8 - 10	11/25/1998	1.3	U
SB-08720	3 - 5	11/25/1998	1.3	U
SB-08720	8 - 10	11/25/1998	1.3	U
SB-08721	3 - 5	11/25/1998	1.3	U
SB-08721	8 - 10	11/25/1998	1.3	U
SB-08722	3 - 5	11/25/1998	1.3	U
SB-08722	8 - 10	11/25/1998	1.4	U
SB-08723	3 - 5	11/25/1998	1.2	U
SB-08723	8 - 10	11/25/1998	1.3	U
SB-08724	3 - 5	11/25/1998	1.1	U
SB-08724	8 - 10	11/25/1998	1.5	U
SB-08930	3 - 5	11/24/1998	1.1	U
SB-08930	8 - 10	11/24/1998	1.2	U
SB-08931	3 - 5	11/24/1998	1.1	U
SB-08931	8 - 10	11/24/1998	1.2	U
SB-08932	3 - 5	11/24/1998	1.1	U
SB-08932	8 - 10	11/24/1998	1.2	U
SB-08933	3 - 5	11/24/1998	1.2	U
SB-08933	8 - 10	11/24/1998	1.2	U
SB-08934	3 - 5	11/24/1998	1.2	U
SB-08934	8 - 10	11/24/1998	8.8	U
SB-08935	3 - 5	11/24/1998	1.1	U
SB-08935	8 - 10	11/24/1998	1.3	U
SB-08936	3 - 5	11/24/1998	1.1	U
SB-08936	8 - 10	11/24/1998	1.3	U
SB-08937	3 - 5	11/24/1998	1.2	U
SB-08937	8 - 10	11/24/1998	1.3	U
SB-08938	3 - 5	11/24/1998	1.1	U
SB-08938	8 - 10	11/24/1998	1.2	U
SB-08939	3 - 5	11/24/1998	1.2	U
SB-08939	8 - 10	11/24/1998	1.3	U
SB-08940	3 - 5	11/24/1998	1.1	U
SB-08940	8 - 10	11/24/1998	1.3	U
SB-08022	10 - 11	3/19/1998	1.4	U

South Yard Area COC Results
1,1,1-Trichloroethane Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1,1-Trichloroethane (µg/kg) - 2004 Screening Level = 27,800 µg/kg; PMCL = 3,120,000 µg/kg[3]				
SB-08020	10 - 11	3/18/1998	1.2	U
SB-08021	9 - 10	3/18/1998	1.2	U
SB-08009	0.6 - 0.6	2/16/1995	1.1	U
SB-08009	6 - 6	2/16/1995	1.2	U
SB-08010	0.5 - 0.5	2/16/1995	1	U
SB-08010	6 - 6	2/16/1995	1.3	U
SB-08008	3.5 - 3.5	2/15/1995	1.1	U
SB-08008	6.5 - 6.5	2/15/1995	1.1	U
SB-08008	11.5 - 11.5	2/15/1995	1.3	U
SB-08005	11 - 11	9/22/1994	1.3	U
SB-08604	1.5 - 1.5	9/19/1994	1.1	U
SB-08604	6 - 6	9/19/1994	1.3	U
SB-08604	9 - 9	9/19/1994	1.3	U
SB-08301	1.5 - 1.5	9/3/1994	1.2	U
SB-08301	4.5 - 4.5	9/3/1994	1.5	U
SB-08301	11.5 - 11.5	9/3/1994	1.3	U
SB-08302	2 - 2	9/3/1994	1.1	U
SB-08302	5 - 5	9/3/1994	4.8	
SB-08302	11 - 11	9/3/1994	1.3	U
SB-08905	5 - 5	8/24/1994	1.3	U
SB-08905	7.5 - 7.5	8/24/1994	1.1	U
SB-08905	10 - 10	8/24/1994	1.2	U
SB-08917	1 - 1	8/23/1994	1	U
SB-08917	7.5 - 7.5	8/23/1994	1.3	U
SB-08917	10 - 10	8/23/1994	1.3	U
SB-08920	1 - 1	8/23/1994	1	U
SB-08920	7.5 - 7.5	8/23/1994	1.2	U
SB-08920	10 - 10	8/23/1994	1.3	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	1 - 1	8/19/1994	1	U
SB-08922	5 - 5	8/19/1994	1.2	U
SB-08922	10 - 10	8/19/1994	1.3	U
SB-08919	2.5 - 2.5	8/18/1994	1.1	U
SB-08919	7.5 - 7.5	8/18/1994	1.3	U
SB-08919	10 - 10	8/18/1994	1.2	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	2.5 - 2.5	8/18/1994	1	U
SB-08924	7.5 - 7.5	8/18/1994	1.4	U
SB-08924	10 - 10	8/18/1994	1.3	U
SB-08915	2 - 2	8/17/1994	1.1	U
SB-08915	5 - 5	8/17/1994	1.1	U
SB-08915	7.5 - 7.5	8/17/1994	1.3	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	5 - 5	8/16/1994	1.4	U
SB-09102	7.5 - 7.5	8/16/1994	1.4	U
SB-09103	2.5 - 2.5	8/16/1994	1	U
SB-09103	7.5 - 7.5	8/16/1994	1.4	U

South Yard Area COC Results
1,1,1-Trichloroethane Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1,1-Trichloroethane (µg/kg) - 2004 Screening Level = 27,800 µg/kg; PMCL = 3,120,000 µg/kg[3]				
SB-09103	10 - 10	8/16/1994	1.3	U
SB-09104	1 - 1	8/16/1994	1	U
SB-09104	7.5 - 7.5	8/16/1994	1.5	U
SB-09104	10 - 10	8/16/1994	1.3	U
SB-10401	10 - 10	3/15/1994	150	U
SB-08201	6.5 - 6.5	12/21/1993	1.1	U
SB-08201	8 - 8	12/21/1993	1.3	U
SB-08201	11 - 11	12/21/1993	1.3	U
SB-08601	1.5 - 1.5	12/20/1993	1.1	U
SB-08601	7 - 7	12/20/1993	1.1	U
SB-08601	11 - 11	12/20/1993	1.3	U
SB-08303	5 - 5	12/13/1993	1.3	U
SB-08903	7.5 - 7.5	12/13/1993	1.2	U
SB-08901	5 - 5	12/11/1993	1.4	U
SB-08901	7.5 - 7.5	12/11/1993	1.3	U
PL2-111A	1 - 1	12/9/1993	1.1	U
PL2-111A	7.5 - 7.5	12/9/1993	1.3	U
SB-08602	1 - 1	12/9/1993	1	U
SB-08602	7.5 - 7.5	12/9/1993	1.5	U
SB-08904	1 - 1	12/9/1993	1.1	U
SB-08904	7.5 - 7.5	12/9/1993	1.3	U
SB-28201	1 - 1	12/9/1993	1.2	U
SB-28201	7.5 - 7.5	12/9/1993	1.1	U
SS-09101	0 - 0.5	11/29/1993	17	
SS-09112	0 - 0.5	11/29/1993	19000	
SS-09103	0 - 0.5	11/24/1993	7.3	
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09111	0 - 0.5	11/23/1993	1	U
SS-09104	0 - 0.5	11/22/1993	20000	
SS-09102	0 - 0.5	11/19/1993	140	D
SS-09109	0 - 0.5	11/19/1993	1.1	U
SS-09106	0 - 0.5	11/18/1993	5.4	
SS-09108	0 - 0.5	11/17/1993	9.7	
SS-09110	0 - 0.5	11/17/1993	36	
SS-09105	0 - 0.5	11/16/1993	630	D
SS-09107	0 - 0.5	11/16/1993	270	
PL2-301A	5 - 5	7/8/1992	1.3	U
PL2-301A	10 - 10	7/8/1992	1.2	U
PL2-302A	5 - 5	7/8/1992	1	
PL2-302A	10 - 10	7/8/1992	1.3	U
PL2-303A	5 - 5	7/8/1992	1.2	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-109B	9 - 9	7/7/1992	13	
PL2-109C	6 - 6	7/6/1992	2.3	
PL2-109C	9 - 9	7/6/1992	1.3	U
PL2-105C	3 - 3	6/25/1992	1	U
PL2-105C	10 - 10	6/25/1992	1.3	U

South Yard Area COC Results
1,1,1-Trichloroethane Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1,1-Trichloroethane (µg/kg) - 2004 Screening Level = 27,800 µg/kg; PMCL = 3,120,000 µg/kg[3]				
PL2-104B	6 - 6	6/24/1992	1.4	U
PL2-104B	11 - 11	6/24/1992	1.3	U
PL2-110C	6 - 6	6/22/1992	1.1	U
PL2-110C	9 - 9	6/22/1992	160	U
PL2-106C	7 - 7	6/18/1992	1.4	U
PL2-106C	12 - 12	6/18/1992	1.4	U
HA-284-03	2 - 2.5	4/27/1992	1	U
HA-284-03	4 - 4.5	4/27/1992	1.7	U
SB-284-01	4 - 4.5	4/27/1992	1.1	U
SB-284-01	8 - 8.5	4/27/1992	1.4	U
SB-284-02	4 - 4.5	4/27/1992	1.2	U
SB-284-02	6 - 6.5	4/27/1992	1.2	U
PL31-B1	9 - 9	3/24/1992	1.4	U
PL31-B2	8.5 - 8.5	3/24/1992	1.1	U
PL31-P1	1.8 - 1.8	3/24/1992	1	U
PL31-S1	4.6 - 4.6	3/24/1992	1.1	U
PL31-S2	5 - 5	3/24/1992	1	U
PL31-S3	5.5 - 5.5	3/24/1992	1	U
PL31-S4	5.9 - 5.9	3/24/1992	1	U
PL66-B1	5.5 - 5.5	10/28/1991	1.1	U
PL66-B1	10.5 - 10.5	10/28/1991	1.3	U
PL66-B2	5.5 - 5.5	10/28/1991	2.4	
PL66-B2	10.5 - 10.5	10/28/1991	9.2	
SB116-B1	5 - 5	9/13/1991	1.2	U
SB116-B1	8 - 8	9/13/1991	1.4	U
SB116-B1	9.5 - 9.5	9/13/1991	1.3	U
SB116-B2	2 - 2	9/13/1991	1	U
SB116-B2	7 - 7	9/13/1991	1.1	U
SB116-B2	12 - 12	9/13/1991	1.3	U
SB116-B3	2 - 2	9/13/1991	1.4	U
SB116-B3	7 - 7	9/13/1991	1.3	N
SB116-B3	12 - 12	9/13/1991	1.3	U
288-16	4 - 4	8/14/1991	1	U
288-17	4 - 4	8/14/1991	1	U
288-18	4 - 4	8/14/1991	1.1	U
288-19	4 - 4	8/14/1991	1	U
288-20	4 - 4	8/14/1991	1	U
288-21	4 - 4	8/14/1991	1	U
288-22	4 - 4	8/14/1991	1.1	U
288-23	4 - 4	8/14/1991	1.1	U
288-24	4 - 4	8/14/1991	1	U
288-1	3 - 3	8/13/1991	1.1	U
288-1	8 - 8	8/13/1991	1.5	U
288-10	1.5 - 1.5	8/13/1991	1.2	U
288-11	0.5 - 0.5	8/13/1991	1.2	U
288-12	0.5 - 0.5	8/13/1991	1	U
288-14	3 - 3	8/13/1991	1.2	U
288-14	8 - 8	8/13/1991	1.3	U

South Yard Area COC Results
1,1,1-Trichloroethane Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1,1-Trichloroethane (µg/kg) - 2004 Screening Level = 27,800 µg/kg; PMCL = 3,120,000 µg/kg[3]				
288-2	3 - 3	8/13/1991	1	U
288-2	8 - 8	8/13/1991	1.4	U
288-3	3 - 3	8/13/1991	1	U
288-4	3 - 3	8/13/1991	670	U
288-5	1 - 1	8/13/1991	1400	U
288-5	3 - 3	8/13/1991	1300	U
288-6	1 - 1	8/13/1991	5.3	U
288-6	3 - 3	8/13/1991	7.5	J
288-7	3 - 3	8/13/1991	1.1	U
288-8	3 - 3	8/13/1991	1	U
288-8	8 - 8	8/13/1991	1.4	U
288-9	1.5 - 1.5	8/13/1991	1.2	U
PL2-115A	2 - 2	7/27/1989	0.7	
PL2-115A	5 - 5	7/27/1989	5.5	
PL2-115A	8.5 - 8.5	7/27/1989	0.8	U
PL2-115A	10 - 10	7/27/1989	0.8	U
PL2-116A	2 - 2	7/26/1989	0.6	U
PL2-116A	5 - 5	7/26/1989	0.7	U
PL2-116A	8.5 - 8.5	7/26/1989	0.7	U
PL2-116A	10 - 10	7/26/1989	0.7	U
SB291-16	2 - 2	7/26/1989	2.4	
SB291-16	5 - 5	7/26/1989	1500	
SB291-16	9.5 - 9.5	7/26/1989	4.9	
SB291-17	2 - 2	7/26/1989	2	N
SB291-17	5 - 5	7/26/1989	280	
SB291-17	9.5 - 9.5	7/26/1989	0.8	U
SB297-2	2 - 2	7/25/1989	0.6	U
SB297-2	5 - 5	7/25/1989	9.7	
SB297-2	10.5 - 10.5	7/25/1989	0.8	U
SB297-3	2 - 2	7/25/1989	0.6	U
SB297-3	5 - 5	7/25/1989	36	
SB297-3	9.5 - 9.5	7/25/1989	0.8	U
SB291-3	2.5 - 2.5	1/12/1989	2100	
SB291-3	7.5 - 7.5	1/12/1989	6600	
SB291-3	9.5 - 9.5	1/12/1989	640	
SB291-4	5 - 5	1/12/1989	73	
SB291-5	5 - 5	1/12/1989	20	
SB291-6	2.5 - 7.5	1/12/1989	150	
SB291-9	2.5 - 2.5	1/12/1989	46	
SB291-9	5 - 5	1/12/1989	8.2	
SB291-9	9.5 - 9.5	1/12/1989	1.8	
PL2-117A	7.5 - 7.5	1/11/1989	230	U
SB291-10	2.5 - 2.5	1/11/1989	48	
SB291-8	5 - 5	1/11/1989	83	U
SB291-8	10 - 10	1/11/1989	81	U
PL2-112A	5.5 - 5.5	1/10/1989	110000	
PL2-114A	8 - 8	1/10/1989	1.4	U
PL2-114A	10.5 - 10.5	1/10/1989	81	U

South Yard Area COC Results
1,1,1-Trichloroethane Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
1,1,1-Trichloroethane (µg/kg) - 2004 Screening Level = 27,800 µg/kg; PMCL = 3,120,000 µg/kg[3]				
PL2-101A	11 - 11	10/28/1985	5	U
PL2-103A	4 - 4	10/28/1985	5	U
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Trichloroethene (µg/kg) - 2004 Soil Screening Level = 2.0 µg/kg; PMCL = 5,500 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	2	
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	1	U
DP-SY-03	0 - 1	3/7/2005	1.6	
DP-SY-03	4 - 5	3/7/2005	4.5	
DP-SY-03	9 - 10	3/7/2005	1.7	
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	1.4	U
DP-SY-05	0 - 1	3/7/2005	3.7	
DP-SY-05	4 - 5	3/7/2005	4.5	
DP-SY-05	9 - 10	3/7/2005	19	
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.2	
DP-SY-10	4 - 5	3/8/2005	3.5	
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	4	
DP-SY-11	4 - 5	3/8/2005	1.4	
DP-SY-11	9 - 10	3/8/2005	1.4	U
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	2.1	
PL2-601A	0 - 1.5	3/1/2005	2	
PL2-601A	3.5 - 5	3/1/2005	1.4	
PL2-601A	8.5 - 10	3/1/2005	1.2	U
PL2-602A	0 - 1.5	3/1/2005	13	
PL2-602A	3.5 - 5	3/1/2005	130	
PL2-602A	8.5 - 10	3/1/2005	3.4	
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Trichloroethene (µg/kg) - 2004 Soil Screening Level = 2.0 µg/kg; PMCL = 5,500 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08754	8 - 10	7/20/1999	1.4	U
SB-08746	8 - 8	6/4/1999	1.6	
SB-08747	9 - 9	6/4/1999	220	
SB-08748	11 - 11	6/4/1999	1.5	U
SB-08743	11 - 11	6/3/1999	1.3	U
SB-08941	8 - 8	5/25/1999	53	
SB-08942	11 - 11	5/25/1999	1.6	
SB-08943	11 - 11	5/25/1999	31	
SB-08944	11 - 11	5/25/1999	11	
SB-08945	8 - 8	5/25/1999	22	
SB-08716	3 - 5	11/25/1998	5.2	
SB-08716	8 - 10	11/25/1998	1.4	U
SB-08717	3 - 5	11/25/1998	1.3	U
SB-08717	8 - 10	11/25/1998	2.2	
SB-08718	3 - 5	11/25/1998	14	
SB-08718	8 - 10	11/25/1998	1.3	U
SB-08719	3 - 5	11/25/1998	1.1	U
SB-08719	8 - 10	11/25/1998	1.3	U
SB-08720	3 - 5	11/25/1998	1.3	U
SB-08720	8 - 10	11/25/1998	1.3	U
SB-08721	3 - 5	11/25/1998	1.3	U
SB-08721	8 - 10	11/25/1998	1.3	U
SB-08722	3 - 5	11/25/1998	4.4	
SB-08722	8 - 10	11/25/1998	1.4	U
SB-08723	3 - 5	11/25/1998	1.2	U
SB-08723	8 - 10	11/25/1998	1.3	U
SB-08724	3 - 5	11/25/1998	1.1	U
SB-08724	8 - 10	11/25/1998	1.5	U
SB-08930	3 - 5	11/24/1998	1.1	U
SB-08930	8 - 10	11/24/1998	1.2	U
SB-08931	3 - 5	11/24/1998	1.8	
SB-08931	8 - 10	11/24/1998	1.2	U
SB-08932	3 - 5	11/24/1998	5	
SB-08932	8 - 10	11/24/1998	1.2	U
SB-08933	3 - 5	11/24/1998	8.3	
SB-08933	8 - 10	11/24/1998	1.2	U
SB-08934	3 - 5	11/24/1998	41	
SB-08934	8 - 10	11/24/1998	8.8	U
SB-08935	3 - 5	11/24/1998	7.6	
SB-08935	8 - 10	11/24/1998	1.3	U
SB-08936	3 - 5	11/24/1998	1.6	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Trichloroethene (µg/kg) - 2004 Soil Screening Level = 2.0 µg/kg; PMCL = 5,500 µg/kg[3]				
SB-08936	8 - 10	11/24/1998	1.3	U
SB-08937	3 - 5	11/24/1998	14	
SB-08937	8 - 10	11/24/1998	1.3	U
SB-08938	3 - 5	11/24/1998	1.3	
SB-08938	8 - 10	11/24/1998	1.6	
SB-08939	3 - 5	11/24/1998	1.2	U
SB-08939	8 - 10	11/24/1998	1.7	
SB-08940	3 - 5	11/24/1998	20	
SB-08940	8 - 10	11/24/1998	1.3	U
SB-08022	10 - 11	3/19/1998	1.4	U
SB-08020	10 - 11	3/18/1998	3.6	
SB-08021	9 - 10	3/18/1998	1.2	U
SB-08009	0.6 - 0.6	2/16/1995	1.1	U
SB-08009	6 - 6	2/16/1995	1.2	U
SB-08010	0.5 - 0.5	2/16/1995	1	U
SB-08010	6 - 6	2/16/1995	14	
SB-08008	3.5 - 3.5	2/15/1995	1.1	U
SB-08008	6.5 - 6.5	2/15/1995	1.1	U
SB-08008	11.5 - 11.5	2/15/1995	1.3	U
SB-08005	11 - 11	9/22/1994	1.3	U
SB-08604	1.5 - 1.5	9/19/1994	1.1	U
SB-08604	6 - 6	9/19/1994	1.3	U
SB-08604	9 - 9	9/19/1994	1.3	U
SB-08301	1.5 - 1.5	9/3/1994	1.2	U
SB-08301	4.5 - 4.5	9/3/1994	1.5	U
SB-08301	11.5 - 11.5	9/3/1994	1.3	U
SB-08302	2 - 2	9/3/1994	1.1	U
SB-08302	5 - 5	9/3/1994	1.3	U
SB-08302	11 - 11	9/3/1994	1.3	U
SB-08905	5 - 5	8/24/1994	31	
SB-08905	7.5 - 7.5	8/24/1994	1.1	U
SB-08905	10 - 10	8/24/1994	1.2	U
SB-08917	1 - 1	8/23/1994	1	U
SB-08917	7.5 - 7.5	8/23/1994	8.4	
SB-08917	10 - 10	8/23/1994	2	
SB-08920	1 - 1	8/23/1994	1	U
SB-08920	7.5 - 7.5	8/23/1994	1.2	U
SB-08920	10 - 10	8/23/1994	1.3	U
SB-08922	1 - 1	8/19/1994	2.8	
SB-08922	1 - 1	8/19/1994	3.9	
SB-08922	5 - 5	8/19/1994	110	D
SB-08922	10 - 10	8/19/1994	1.3	U
SB-08919	2.5 - 2.5	8/18/1994	2.2	
SB-08919	7.5 - 7.5	8/18/1994	43	
SB-08919	10 - 10	8/18/1994	1.2	U
SB-08924	2.5 - 2.5	8/18/1994	4.8	
SB-08924	2.5 - 2.5	8/18/1994	3.4	
SB-08924	7.5 - 7.5	8/18/1994	1.4	U

South Yard Area COC Results
Trichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Trichloroethene (µg/kg) - 2004 Soil Screening Level = 2.0 µg/kg; PMCL = 5,500 µg/kg[3]				
SB-08924	10 - 10	8/18/1994	3.9	
SB-08915	2 - 2	8/17/1994	3.7	
SB-08915	5 - 5	8/17/1994	16	
SB-08915	7.5 - 7.5	8/17/1994	260	D
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	1 - 1	8/16/1994	1.1	U
SB-09102	5 - 5	8/16/1994	14	
SB-09102	7.5 - 7.5	8/16/1994	2.1	
SB-09103	2.5 - 2.5	8/16/1994	1	U
SB-09103	7.5 - 7.5	8/16/1994	3.1	
SB-09103	10 - 10	8/16/1994	1.3	U
SB-09104	1 - 1	8/16/1994	1.9	
SB-09104	7.5 - 7.5	8/16/1994	120	
SB-09104	10 - 10	8/16/1994	1.3	U
SB-10401	10 - 10	3/15/1994	220	
SB-08201	6.5 - 6.5	12/21/1993	1.1	U
SB-08201	8 - 8	12/21/1993	1.3	U
SB-08201	11 - 11	12/21/1993	36	
SB-08601	1.5 - 1.5	12/20/1993	1.1	U
SB-08601	7 - 7	12/20/1993	1.1	U
SB-08601	11 - 11	12/20/1993	1.3	U
SB-08303	5 - 5	12/13/1993	1.3	U
SB-08903	7.5 - 7.5	12/13/1993	1.2	U
SB-08901	5 - 5	12/11/1993	7.3	
SB-08901	7.5 - 7.5	12/11/1993	1.3	U
PL2-111A	1 - 1	12/9/1993	1.1	U
PL2-111A	7.5 - 7.5	12/9/1993	1.9	
SB-08602	1 - 1	12/9/1993	1	U
SB-08602	7.5 - 7.5	12/9/1993	1.5	U
SB-08904	1 - 1	12/9/1993	1.1	U
SB-08904	7.5 - 7.5	12/9/1993	12	
SB-28201	1 - 1	12/9/1993	1.2	U
SB-28201	7.5 - 7.5	12/9/1993	1.1	U
SS-09101	0 - 0.5	11/29/1993	5.2	
SS-09112	0 - 0.5	11/29/1993	220	N
SS-09103	0 - 0.5	11/24/1993	37	
SS-09111	0 - 0.5	11/23/1993	3	
SS-09111	0 - 0.5	11/23/1993	2.8	
SS-09104	0 - 0.5	11/22/1993	7600	J
SS-09102	0 - 0.5	11/19/1993	140	D
SS-09109	0 - 0.5	11/19/1993	1.1	U
SS-09106	0 - 0.5	11/18/1993	21	
SS-09108	0 - 0.5	11/17/1993	2.5	
SS-09110	0 - 0.5	11/17/1993	77	
SS-09105	0 - 0.5	11/16/1993	450	D
SS-09107	0 - 0.5	11/16/1993	52	
PL2-301A	5 - 5	7/8/1992	1.3	U
PL2-301A	10 - 10	7/8/1992	1.2	U

South Yard Area COC Results
Trichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Trichloroethene (µg/kg) - 2004 Soil Screening Level = 2.0 µg/kg; PMCL = 5,500 µg/kg[3]				
PL2-302A	5 - 5	7/8/1992	1	U
PL2-302A	10 - 10	7/8/1992	1.3	U
PL2-303A	5 - 5	7/8/1992	1.2	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-303A	10 - 10	7/8/1992	1.3	U
PL2-109B	9 - 9	7/7/1992	480	
PL2-109C	6 - 6	7/6/1992	58	
PL2-109C	9 - 9	7/6/1992	18	
PL2-105C	3 - 3	6/25/1992	1.3	
PL2-105C	10 - 10	6/25/1992	3.6	
PL2-104B	6 - 6	6/24/1992	1.4	U
PL2-104B	11 - 11	6/24/1992	1.3	U
PL2-110C	6 - 6	6/22/1992	1.1	U
PL2-110C	9 - 9	6/22/1992	160	U
PL2-106C	7 - 7	6/18/1992	790	
PL2-106C	12 - 12	6/18/1992	1.8	
HA-284-03	2 - 2.5	4/27/1992	1	U
HA-284-03	4 - 4.5	4/27/1992	1.7	U
SB-284-01	4 - 4.5	4/27/1992	1.1	U
SB-284-01	8 - 8.5	4/27/1992	1.4	U
SB-284-02	4 - 4.5	4/27/1992	1.2	U
SB-284-02	6 - 6.5	4/27/1992	1.2	U
PL31-B1	9 - 9	3/24/1992	1.7	
PL31-B2	8.5 - 8.5	3/24/1992	1.1	U
PL31-P1	1.8 - 1.8	3/24/1992	1	U
PL31-S1	4.6 - 4.6	3/24/1992	1.1	U
PL31-S2	5 - 5	3/24/1992	1	U
PL31-S3	5.5 - 5.5	3/24/1992	1	U
PL31-S4	5.9 - 5.9	3/24/1992	0.9	J
PL66-B1	5.5 - 5.5	10/28/1991	3.1	
PL66-B1	10.5 - 10.5	10/28/1991	1.3	U
PL66-B2	5.5 - 5.5	10/28/1991	30	
PL66-B2	10.5 - 10.5	10/28/1991	8.9	
SB116-B1	5 - 5	9/13/1991	1.2	U
SB116-B1	8 - 8	9/13/1991	150	
SB116-B1	9.5 - 9.5	9/13/1991	1.3	U
SB116-B2	2 - 2	9/13/1991	1	U
SB116-B2	7 - 7	9/13/1991	27	
SB116-B2	12 - 12	9/13/1991	1.3	U
SB116-B3	2 - 2	9/13/1991	11	
SB116-B3	7 - 7	9/13/1991	84	
SB116-B3	12 - 12	9/13/1991	1.3	U
288-16	4 - 4	8/14/1991	7.3	
288-17	4 - 4	8/14/1991	27	
288-18	4 - 4	8/14/1991	0.9	J
288-19	4 - 4	8/14/1991	1	U
288-20	4 - 4	8/14/1991	1	U
288-21	4 - 4	8/14/1991	1	U

South Yard Area COC Results
Trichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Trichloroethene (µg/kg) - 2004 Soil Screening Level = 2.0 µg/kg; PMCL = 5,500 µg/kg[3]				
288-22	4 - 4	8/14/1991	7.7	
288-23	4 - 4	8/14/1991	2.1	U
288-24	4 - 4	8/14/1991	2	U
288-1	3 - 3	8/13/1991	5.3	
288-1	8 - 8	8/13/1991	7.4	
288-10	1.5 - 1.5	8/13/1991	68	
288-11	0.5 - 0.5	8/13/1991	29	
288-12	0.5 - 0.5	8/13/1991	1	U
288-14	3 - 3	8/13/1991	96	
288-14	8 - 8	8/13/1991	1.9	
288-2	3 - 3	8/13/1991	1.7	
288-2	8 - 8	8/13/1991	2100	
288-3	3 - 3	8/13/1991	1	U
288-4	3 - 3	8/13/1991	670	U
288-5	1 - 1	8/13/1991	1400	U
288-5	3 - 3	8/13/1991	1300	U
288-6	1 - 1	8/13/1991	22	
288-6	3 - 3	8/13/1991	170	
288-7	3 - 3	8/13/1991	3.9	
288-8	3 - 3	8/13/1991	1.1	
288-8	8 - 8	8/13/1991	1200	
288-9	1.5 - 1.5	8/13/1991	1.2	J
PL2-115A	2 - 2	7/27/1989	29	
PL2-115A	5 - 5	7/27/1989	210	
PL2-115A	8.5 - 8.5	7/27/1989	0.8	U
PL2-115A	10 - 10	7/27/1989	0.8	
PL2-116A	2 - 2	7/26/1989	0.6	U
PL2-116A	5 - 5	7/26/1989	0.7	N
PL2-116A	8.5 - 8.5	7/26/1989	0.7	U
PL2-116A	10 - 10	7/26/1989	0.7	U
SB291-16	2 - 2	7/26/1989	0.6	U
SB291-16	5 - 5	7/26/1989	55	
SB291-16	9.5 - 9.5	7/26/1989	0.8	U
SB291-17	2 - 2	7/26/1989	3.2	
SB291-17	5 - 5	7/26/1989	280	
SB291-17	9.5 - 9.5	7/26/1989	0.8	U
SB297-2	2 - 2	7/25/1989	0.9	
SB297-2	5 - 5	7/25/1989	7.4	
SB297-2	10.5 - 10.5	7/25/1989	0.8	U
SB297-3	2 - 2	7/25/1989	0.6	U
SB297-3	5 - 5	7/25/1989	19	
SB297-3	9.5 - 9.5	7/25/1989	0.8	U
SB291-3	2.5 - 2.5	1/12/1989	130	
SB291-3	7.5 - 7.5	1/12/1989	170	U
SB291-3	9.5 - 9.5	1/12/1989	9.4	
SB291-4	5 - 5	1/12/1989	59	
SB291-5	5 - 5	1/12/1989	130	
SB291-6	2.5 - 7.5	1/12/1989	200	

South Yard Area COC Results
Trichloroethene Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Trichloroethene (µg/kg) - 2004 Soil Screening Level = 2.0 µg/kg; PMCL = 5,500 µg/kg[3]				
SB291-9	2.5 - 2.5	1/12/1989	48	
SB291-9	5 - 5	1/12/1989	19	
SB291-9	9.5 - 9.5	1/12/1989	1.6	
PL2-117A	7.5 - 7.5	1/11/1989	230	U
SB291-10	2.5 - 2.5	1/11/1989	42	
SB291-8	5 - 5	1/11/1989	83	U
SB291-8	10 - 10	1/11/1989	81	U
PL2-112A	5.5 - 5.5	1/10/1989	210	
PL2-114A	8 - 8	1/10/1989	1.9	N
PL2-114A	10.5 - 10.5	1/10/1989	81	U
PL2-101A	11 - 11	10/28/1985	5	U
PL2-103A	4 - 4	10/28/1985	5	U
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
Vinyl Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Vinyl Chloride (µg/kg) - 2004 Soil Screening Level = 4.59 µg/kg; PMCL = 290 µg/kg[3]				
DP-SY-01	0 - 1	3/8/2005	1	U
DP-SY-01	4 - 5	3/8/2005	1.2	U
DP-SY-01	9 - 10	3/8/2005	1.3	U
DP-SY-02	0 - 1	3/7/2005	1.2	U
DP-SY-02	4 - 5	3/7/2005	1	U
DP-SY-02	9 - 10	3/7/2005	1	U
DP-SY-03	0 - 1	3/7/2005	1.3	U
DP-SY-03	4 - 5	3/7/2005	1.1	U
DP-SY-03	9 - 10	3/7/2005	9.5	
DP-SY-04	0 - 1	3/7/2005	1	U
DP-SY-04	4 - 5	3/7/2005	1	U
DP-SY-04	9 - 10	3/7/2005	6.5	
DP-SY-05	0 - 1	3/7/2005	1	U
DP-SY-05	4 - 5	3/7/2005	1.2	U
DP-SY-05	9 - 10	3/7/2005	11	
DP-SY-06	0 - 1	3/7/2005	1.1	U
DP-SY-06	4 - 5	3/7/2005	1.2	U
DP-SY-06	9 - 10	3/7/2005	1.4	U
DP-SY-07	0 - 1	3/7/2005	1	U
DP-SY-07	4 - 5	3/7/2005	1.1	U
DP-SY-07	9 - 10	3/7/2005	1.1	U
DP-SY-08	0 - 1	3/7/2005	1.1	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	4 - 5	3/7/2005	1.4	U
DP-SY-08	9 - 10	3/7/2005	1.3	U
DP-SY-09	0 - 1	3/8/2005	1	U
DP-SY-09	4 - 5	3/8/2005	1.3	U
DP-SY-09	9 - 10	3/8/2005	1.2	U
DP-SY-10	0 - 1	3/8/2005	1.1	U
DP-SY-10	4 - 5	3/8/2005	1.1	U
DP-SY-10	9 - 10	3/8/2005	1	U
DP-SY-11	0 - 1	3/8/2005	1.1	U
DP-SY-11	4 - 5	3/8/2005	1.1	U
DP-SY-11	9 - 10	3/8/2005	2.2	
DP-SY-12	0 - 1	3/8/2005	1	U
DP-SY-12	4 - 5	3/8/2005	1	U
DP-SY-12	9 - 10	3/8/2005	1.2	U
PL2-601A	0 - 1.5	3/1/2005	1	U
PL2-601A	3.5 - 5	3/1/2005	1	U
PL2-601A	8.5 - 10	3/1/2005	1.2	U
PL2-602A	0 - 1.5	3/1/2005	1	U
PL2-602A	3.5 - 5	3/1/2005	1.1	U
PL2-602A	8.5 - 10	3/1/2005	3.6	
PL2-603A	0 - 1.5	2/28/2005	1.1	U
PL2-603A	3.5 - 5	2/28/2005	1	U
PL2-603A	8.5 - 10	2/28/2005	1.1	U
SB-08334	4 - 5	4/23/2002	1.1	U
SB-08334	7.5 - 8.5	4/23/2002	1.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Vinyl Chloride (µg/kg) - 2004 Soil Screening Level = 4.59 µg/kg; PMCL = 290 µg/kg[3]				
SB-08335	4 - 5	4/23/2002	1.1	U
SB-08335	9 - 10	4/23/2002	1.2	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	4 - 5	4/15/2002	1.1	U
SB-08332	9 - 10	4/15/2002	1.4	U
SB-08333	4 - 5	4/15/2002	1.1	U
SB-08333	9 - 10	4/15/2002	1.3	U
SB-08754	8 - 10	7/20/1999	1.4	U
SB-08746	8 - 8	6/4/1999	1.4	U
SB-08747	9 - 9	6/4/1999	22	
SB-08748	11 - 11	6/4/1999	1.5	U
SB-08743	11 - 11	6/3/1999	1.3	U
SB-08941	8 - 8	5/25/1999	1.4	U
SB-08942	11 - 11	5/25/1999	1.5	
SB-08943	11 - 11	5/25/1999	1.3	U
SB-08944	11 - 11	5/25/1999	1.4	U
SB-08945	8 - 8	5/25/1999	41	
SB-08716	3 - 5	11/25/1998	2.7	U
SB-08716	8 - 10	11/25/1998	2.7	U
SB-08717	3 - 5	11/25/1998	2.6	U
SB-08717	8 - 10	11/25/1998	2.7	U
SB-08718	3 - 5	11/25/1998	2.7	U
SB-08718	8 - 10	11/25/1998	2.7	U
SB-08719	3 - 5	11/25/1998	2.2	U
SB-08719	8 - 10	11/25/1998	2.6	U
SB-08720	3 - 5	11/25/1998	2.5	U
SB-08720	8 - 10	11/25/1998	2.6	U
SB-08721	3 - 5	11/25/1998	2.6	U
SB-08721	8 - 10	11/25/1998	2.5	U
SB-08722	3 - 5	11/25/1998	2.6	U
SB-08722	8 - 10	11/25/1998	2.8	U
SB-08723	3 - 5	11/25/1998	2.4	U
SB-08723	8 - 10	11/25/1998	3.5	
SB-08724	3 - 5	11/25/1998	2.2	U
SB-08724	8 - 10	11/25/1998	2.9	U
SB-08930	3 - 5	11/24/1998	2.2	U
SB-08930	8 - 10	11/24/1998	2.4	U
SB-08931	3 - 5	11/24/1998	2.3	U
SB-08931	8 - 10	11/24/1998	2.5	U
SB-08932	3 - 5	11/24/1998	2.2	U
SB-08932	8 - 10	11/24/1998	2.4	U
SB-08933	3 - 5	11/24/1998	2.3	U
SB-08933	8 - 10	11/24/1998	2.3	U
SB-08934	3 - 5	11/24/1998	2.3	U
SB-08934	8 - 10	11/24/1998	18	U
SB-08935	3 - 5	11/24/1998	2.2	U
SB-08935	8 - 10	11/24/1998	2.6	U
SB-08936	3 - 5	11/24/1998	2.1	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Vinyl Chloride (µg/kg) - 2004 Soil Screening Level = 4.59 µg/kg; PMCL = 290 µg/kg[3]				
SB-08936	8 - 10	11/24/1998	2.5	U
SB-08937	3 - 5	11/24/1998	2.5	U
SB-08937	8 - 10	11/24/1998	2.6	U
SB-08938	3 - 5	11/24/1998	2.2	U
SB-08938	8 - 10	11/24/1998	2.4	U
SB-08939	3 - 5	11/24/1998	2.3	U
SB-08939	8 - 10	11/24/1998	2.6	U
SB-08940	3 - 5	11/24/1998	2.3	U
SB-08940	8 - 10	11/24/1998	2.6	U
SB-08022	10 - 11	3/19/1998	2.9	U
SB-08020	10 - 11	3/18/1998	2.3	U
SB-08021	9 - 10	3/18/1998	2.4	U
SB-08009	0.6 - 0.6	2/16/1995	2.2	U
SB-08009	6 - 6	2/16/1995	2.3	U
SB-08010	0.5 - 0.5	2/16/1995	2.1	U
SB-08010	6 - 6	2/16/1995	2.5	U
SB-08008	3.5 - 3.5	2/15/1995	2.2	U
SB-08008	6.5 - 6.5	2/15/1995	2.2	U
SB-08008	11.5 - 11.5	2/15/1995	2.6	U
SB-08005	11 - 11	9/22/1994	2.6	U
SB-08604	1.5 - 1.5	9/19/1994	2.2	U
SB-08604	6 - 6	9/19/1994	2.6	U
SB-08604	9 - 9	9/19/1994	2.6	U
SB-08301	1.5 - 1.5	9/3/1994	2.5	U
SB-08301	4.5 - 4.5	9/3/1994	3	U
SB-08301	11.5 - 11.5	9/3/1994	2.5	U
SB-08302	2 - 2	9/3/1994	2.2	U
SB-08302	5 - 5	9/3/1994	2.6	U
SB-08302	11 - 11	9/3/1994	2.7	U
SB-08905	5 - 5	8/24/1994	2.6	U
SB-08905	7.5 - 7.5	8/24/1994	2.2	U
SB-08905	10 - 10	8/24/1994	2.5	U
SB-08917	1 - 1	8/23/1994	2	U
SB-08917	7.5 - 7.5	8/23/1994	2.7	U
SB-08917	10 - 10	8/23/1994	2.6	U
SB-08920	1 - 1	8/23/1994	2.1	U
SB-08920	7.5 - 7.5	8/23/1994	2.4	U
SB-08920	10 - 10	8/23/1994	2.6	U
SB-08922	1 - 1	8/19/1994	2	U
SB-08922	1 - 1	8/19/1994	2	U
SB-08922	5 - 5	8/19/1994	2.3	U
SB-08922	10 - 10	8/19/1994	2.5	U
SB-08919	2.5 - 2.5	8/18/1994	2.2	U
SB-08919	7.5 - 7.5	8/18/1994	2.6	U
SB-08919	10 - 10	8/18/1994	2.5	U
SB-08924	2.5 - 2.5	8/18/1994	2	U
SB-08924	2.5 - 2.5	8/18/1994	2.1	U
SB-08924	7.5 - 7.5	8/18/1994	2.7	U

South Yard Area COC Results
Vinyl Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Vinyl Chloride (µg/kg) - 2004 Soil Screening Level = 4.59 µg/kg; PMCL = 290 µg/kg[3]				
SB-08924	10 - 10	8/18/1994	2.6	U
SB-08915	2 - 2	8/17/1994	2.2	U
SB-08915	5 - 5	8/17/1994	2.2	U
SB-08915	7.5 - 7.5	8/17/1994	3.9	
SB-09102	1 - 1	8/16/1994	2.1	U
SB-09102	1 - 1	8/16/1994	2.1	U
SB-09102	5 - 5	8/16/1994	2.8	U
SB-09102	7.5 - 7.5	8/16/1994	8.9	
SB-09103	2.5 - 2.5	8/16/1994	2.1	U
SB-09103	7.5 - 7.5	8/16/1994	46	
SB-09103	10 - 10	8/16/1994	2.6	U
SB-09104	1 - 1	8/16/1994	2.1	U
SB-09104	7.5 - 7.5	8/16/1994	320	D
SB-09104	10 - 10	8/16/1994	2.6	U
SB-10401	10 - 10	3/15/1994	310	U
SB-08201	6.5 - 6.5	12/21/1993	2.2	U
SB-08201	8 - 8	12/21/1993	2.6	U
SB-08201	11 - 11	12/21/1993	2.5	U
SB-08601	1.5 - 1.5	12/20/1993	2.3	U
SB-08601	7 - 7	12/20/1993	2.2	U
SB-08601	11 - 11	12/20/1993	2.5	U
SB-08303	5 - 5	12/13/1993	2.7	U
SB-08903	7.5 - 7.5	12/13/1993	2.4	U
SB-08901	5 - 5	12/11/1993	2.9	U
SB-08901	7.5 - 7.5	12/11/1993	2.7	U
PL2-111A	1 - 1	12/9/1993	2.2	U
PL2-111A	7.5 - 7.5	12/9/1993	2.6	U
SB-08602	1 - 1	12/9/1993	2.1	U
SB-08602	7.5 - 7.5	12/9/1993	3	U
SB-08904	1 - 1	12/9/1993	2.1	U
SB-08904	7.5 - 7.5	12/9/1993	2.7	U
SB-28201	1 - 1	12/9/1993	2.3	U
SB-28201	7.5 - 7.5	12/9/1993	2.2	U
SS-09101	0 - 0.5	11/29/1993	2.3	U
SS-09112	0 - 0.5	11/29/1993	310	U
SS-09103	0 - 0.5	11/24/1993	2.3	U
SS-09111	0 - 0.5	11/23/1993	2.1	U
SS-09111	0 - 0.5	11/23/1993	2	U
SS-09104	0 - 0.5	11/22/1993	680	U
SS-09102	0 - 0.5	11/19/1993	2.2	U
SS-09109	0 - 0.5	11/19/1993	2.2	U
SS-09106	0 - 0.5	11/18/1993	2.3	U
SS-09108	0 - 0.5	11/17/1993	2.1	U
SS-09110	0 - 0.5	11/17/1993	2.2	U
SS-09105	0 - 0.5	11/16/1993	2.3	U
SS-09107	0 - 0.5	11/16/1993	8.1	U
PL2-301A	5 - 5	7/8/1992	2.6	U
PL2-301A	10 - 10	7/8/1992	2.5	U

South Yard Area COC Results
Vinyl Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Vinyl Chloride (µg/kg) - 2004 Soil Screening Level = 4.59 µg/kg; PMCL = 290 µg/kg[3]				
PL2-302A	5 - 5	7/8/1992	2	U
PL2-302A	10 - 10	7/8/1992	2.6	U
PL2-303A	5 - 5	7/8/1992	2.3	U
PL2-303A	10 - 10	7/8/1992	2.5	U
PL2-303A	10 - 10	7/8/1992	2.5	U
PL2-109B	9 - 9	7/7/1992	32	
PL2-109C	6 - 6	7/6/1992	2.4	U
PL2-109C	9 - 9	7/6/1992	2.7	U
PL2-105C	3 - 3	6/25/1992	2.1	U
PL2-105C	10 - 10	6/25/1992	13	
PL2-104B	6 - 6	6/24/1992	2.8	U
PL2-104B	11 - 11	6/24/1992	2.5	U
PL2-110C	6 - 6	6/22/1992	2.3	U
PL2-110C	9 - 9	6/22/1992	330	U
PL2-106C	7 - 7	6/18/1992	8.2	
PL2-106C	12 - 12	6/18/1992	2.8	U
HA-284-03	2 - 2.5	4/27/1992	2.1	U
HA-284-03	4 - 4.5	4/27/1992	3.4	U
SB-284-01	4 - 4.5	4/27/1992	2.2	U
SB-284-01	8 - 8.5	4/27/1992	2.7	U
SB-284-02	4 - 4.5	4/27/1992	2.4	U
SB-284-02	6 - 6.5	4/27/1992	2.4	U
PL31-B1	9 - 9	3/24/1992	2.7	U
PL31-B2	8.5 - 8.5	3/24/1992	2.3	U
PL31-P1	1.8 - 1.8	3/24/1992	2	U
PL31-S1	4.6 - 4.6	3/24/1992	2.1	U
PL31-S2	5 - 5	3/24/1992	2	U
PL31-S3	5.5 - 5.5	3/24/1992	2.1	U
PL31-S4	5.9 - 5.9	3/24/1992	1.9	U
PL66-B1	5.5 - 5.5	10/28/1991	3.3	U
PL66-B1	10.5 - 10.5	10/28/1991	3.8	U
PL66-B2	5.5 - 5.5	10/28/1991	3.5	U
PL66-B2	10.5 - 10.5	10/28/1991	3.9	U
SB116-B1	5 - 5	9/13/1991	3.6	U
SB116-B1	8 - 8	9/13/1991	4.2	U
SB116-B1	9.5 - 9.5	9/13/1991	3.9	U
SB116-B2	2 - 2	9/13/1991	3.1	U
SB116-B2	7 - 7	9/13/1991	3.4	U
SB116-B2	12 - 12	9/13/1991	4	U
SB116-B3	2 - 2	9/13/1991	4.2	U
SB116-B3	7 - 7	9/13/1991	4.3	U
SB116-B3	12 - 12	9/13/1991	9.2	
288-16	4 - 4	8/14/1991	3.1	U
288-17	4 - 4	8/14/1991	3.1	U
288-18	4 - 4	8/14/1991	3.2	U
288-19	4 - 4	8/14/1991	3.1	U
288-20	4 - 4	8/14/1991	3.1	U
288-21	4 - 4	8/14/1991	3.1	U

South Yard Area COC Results
Vinyl Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Vinyl Chloride (µg/kg) - 2004 Soil Screening Level = 4.59 µg/kg; PMCL = 290 µg/kg[3]				
288-22	4 - 4	8/14/1991	3.2	U
288-23	4 - 4	8/14/1991	3.2	U
288-24	4 - 4	8/14/1991	3.1	U
288-1	3 - 3	8/13/1991	3.2	U
288-1	8 - 8	8/13/1991	1100	
288-10	1.5 - 1.5	8/13/1991	3.7	U
288-11	0.5 - 0.5	8/13/1991	3.5	U
288-12	0.5 - 0.5	8/13/1991	3	U
288-14	3 - 3	8/13/1991	3.6	U
288-14	8 - 8	8/13/1991	4	U
288-2	3 - 3	8/13/1991	3.1	U
288-2	8 - 8	8/13/1991	150	
288-3	3 - 3	8/13/1991	3.1	U
288-4	3 - 3	8/13/1991	2000	U
288-5	1 - 1	8/13/1991	4100	U
288-5	3 - 3	8/13/1991	3900	U
288-6	1 - 1	8/13/1991	16	U
288-6	3 - 3	8/13/1991	31	U
288-7	3 - 3	8/13/1991	3.2	U
288-8	3 - 3	8/13/1991	3.1	U
288-8	8 - 8	8/13/1991	160	
288-9	1.5 - 1.5	8/13/1991	3.6	U
PL2-115A	2 - 2	7/27/1989	2.1	U
PL2-115A	5 - 5	7/27/1989	2.6	U
PL2-115A	8.5 - 8.5	7/27/1989	150	
PL2-115A	10 - 10	7/27/1989	130	
PL2-116A	2 - 2	7/26/1989	2.1	U
PL2-116A	5 - 5	7/26/1989	2.3	U
PL2-116A	8.5 - 8.5	7/26/1989	2.5	U
PL2-116A	10 - 10	7/26/1989	2.5	U
SB291-16	2 - 2	7/26/1989	2	U
SB291-16	5 - 5	7/26/1989	10	U
SB291-16	9.5 - 9.5	7/26/1989	15	
SB291-17	2 - 2	7/26/1989	2	U
SB291-17	5 - 5	7/26/1989	2.6	U
SB291-17	9.5 - 9.5	7/26/1989	2.5	U
SB297-2	2 - 2	7/25/1989	2	U
SB297-2	5 - 5	7/25/1989	2.1	U
SB297-2	10.5 - 10.5	7/25/1989	2.7	U
SB297-3	2 - 2	7/25/1989	2.1	U
SB297-3	5 - 5	7/25/1989	2.5	U
SB297-3	9.5 - 9.5	7/25/1989	1.9	N
SB291-3	2.5 - 2.5	1/12/1989	58	U
SB291-3	7.5 - 7.5	1/12/1989	560	U
SB291-3	9.5 - 9.5	1/12/1989	13	U
SB291-4	5 - 5	1/12/1989	4.1	U
SB291-5	5 - 5	1/12/1989	5.6	U
SB291-6	2.5 - 7.5	1/12/1989	60	U

South Yard Area COC Results
Vinyl Chloride Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (µg/kg)	Data Qualifier[2]
Vinyl Chloride (µg/kg) - 2004 Soil Screening Level = 4.59 µg/kg; PMCL = 290 µg/kg[3]				
SB291-9	2.5 - 2.5	1/12/1989	4.7	U
SB291-9	5 - 5	1/12/1989	9.5	U
SB291-9	9.5 - 9.5	1/12/1989	2.7	U
PL2-117A	7.5 - 7.5	1/11/1989	770	U
SB291-10	2.5 - 2.5	1/11/1989	4.5	U
SB291-8	5 - 5	1/11/1989	280	U
SB291-8	10 - 10	1/11/1989	270	U
PL2-112A	5.5 - 5.5	1/10/1989	8.5	U
PL2-114A	8 - 8	1/10/1989	4.7	U
PL2-114A	10.5 - 10.5	1/10/1989	270	U
PL2-101A	11 - 11	10/28/1985	5	U
PL2-103A	4 - 4	10/28/1985	5	U
PL2-103A	7 - 7	10/28/1985	5	U
PL2-103A	10 - 10	10/28/1985	5	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

South Yard Area COC Results
TPH-Diesel Range Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH - Diesel Range (mg/kg) - 2004 Soil Screening Level = 2,000 mg/kg; PMCL = 200 mg/kg[3]				
PL2-603A	0 - 1.5	2/28/2005	34	
PL2-603A	3.5 - 5	2/28/2005	15	
PL2-603A	8.5 - 10	2/28/2005	16	
SB-08738	10 - 10	5/28/1999	18	
SB-08741	3 - 3	5/28/1999	5.3	U
SB-08742	5 - 5	5/28/1999	5.6	U
SB-08728	3 - 3	5/18/1999	5.4	U
SB-08729	3 - 3	5/18/1999	5.4	U
SB-08729	3 - 3	5/18/1999	5.4	U
SB-08730	3 - 3	5/18/1999	15	
SB-08731	3 - 3	5/18/1999	19	
SB-08732	3 - 3	5/18/1999	47	
SB-08716	3 - 5	11/25/1998	25	U
SB-08716	8 - 10	11/25/1998	25	U
SB-08717	3 - 5	11/25/1998	25	U
SB-08717	8 - 10	11/25/1998	25	U
SB-08718	3 - 5	11/25/1998	25	U
SB-08718	8 - 10	11/25/1998	25	U
SB-08719	3 - 5	11/25/1998	25	U
SB-08719	8 - 10	11/25/1998	25	U
SB-08720	3 - 5	11/25/1998	25	U
SB-08720	8 - 10	11/25/1998	25	U
SB-08721	3 - 5	11/25/1998	25	U
SB-08721	8 - 10	11/25/1998	25	U
SB-08722	3 - 5	11/25/1998	25	U
SB-08722	8 - 10	11/25/1998	25	U
SB-08723	3 - 5	11/25/1998	25	U
SB-08723	8 - 10	11/25/1998	25	U
SB-08724	3 - 5	11/25/1998	25	U
SB-08724	8 - 10	11/25/1998	25	U
SB-08930	3 - 5	11/24/1998	25	U
SB-08930	8 - 10	11/24/1998	25	U
SB-08931	3 - 5	11/24/1998	25	U
SB-08931	8 - 10	11/24/1998	25	U
SB-08932	3 - 5	11/24/1998	25	U
SB-08932	8 - 10	11/24/1998	25	U
SB-08933	3 - 5	11/24/1998	25	U
SB-08933	8 - 10	11/24/1998	25	U
SB-08934	3 - 5	11/24/1998	25	U
SB-08934	8 - 10	11/24/1998	25	U
SB-08935	3 - 5	11/24/1998	25	U
SB-08935	8 - 10	11/24/1998	25	U
SB-08936	3 - 5	11/24/1998	25	U
SB-08936	8 - 10	11/24/1998	25	U
SB-08937	3 - 5	11/24/1998	25	U
SB-08937	8 - 10	11/24/1998	25	U
SB-08938	3 - 5	11/24/1998	25	U
SB-08938	8 - 10	11/24/1998	25	U

South Yard Area COC Results
TPH-Diesel Range Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH - Diesel Range (mg/kg) - 2004 Soil Screening Level = 2,000 mg/kg; PMCL = 200 mg/kg[3]				
SB-08939	3 - 5	11/24/1998	25	U
SB-08939	8 - 10	11/24/1998	25	U
SB-08940	3 - 5	11/24/1998	25	U
SB-08940	8 - 10	11/24/1998	25	U
SB-08012	5 - 5	3/9/1995	5.4	U
SB-08012	7.5 - 7.5	3/9/1995	6.2	U
SB-08012	8.5 - 8.5	3/9/1995	5.8	U
SB-08011	5 - 5	3/3/1995	5.2	U
SB-08011	7.5 - 7.5	3/3/1995	6	U
SB-08011	9.5 - 9.5	3/3/1995	6.3	U
SB-08011	9.5 - 9.5	3/3/1995	6.2	U
SB-08305	1 - 1	2/22/1995	25	U
SB-08305	5 - 5	2/22/1995	25	U
SB-08009	0.6 - 0.6	2/16/1995	25	U
SB-08009	6 - 6	2/16/1995	25	U
SB-08010	0.5 - 0.5	2/16/1995	25	U
SB-08010	6 - 6	2/16/1995	25	U
SB-11001	6 - 6	9/12/1994	25	U
SB-11001	9.5 - 9.5	9/12/1994	25	U
SB-11001	9.5 - 9.5	9/12/1994	25	U
SB-08301	1.5 - 1.5	9/3/1994	25	U
SB-08301	4.5 - 4.5	9/3/1994	25	UJ
SB-08301	11.5 - 11.5	9/3/1994	25	U
SB-08302	2 - 2	9/3/1994	25	U
SB-08302	5 - 5	9/3/1994	25	U
SB-08302	11 - 11	9/3/1994	25	U
SB-08001	7.5 - 7.5	8/25/1994	2400	D
SB-08001	10 - 10	8/25/1994	6800	D
SB-06802	7.5 - 7.5	8/24/1994	5.3	U
SB-06802	10 - 10	8/24/1994	14000	DJ
SB-06802	10 - 10	8/24/1994	7400	DJ
SB-08925	1.5 - 1.5	8/18/1994	25	U
SB-08925	5.5 - 5.5	8/18/1994	25	U
SB-08925	8 - 8	8/18/1994	25	U
SB-08002	5 - 5	8/17/1994	5.2	U
SB-08002	7.5 - 7.5	8/17/1994	5.3	U
SB-08002	10 - 10	8/17/1994	6.2	U
SB-09102	1 - 1	8/16/1994	25	U
SB-09102	1 - 1	8/16/1994	25	U
SB-09102	5 - 5	8/16/1994	25	U
SB-09102	7.5 - 7.5	8/16/1994	25	U
SB-09103	2.5 - 2.5	8/16/1994	25	U
SB-09103	7.5 - 7.5	8/16/1994	25	U
SB-09103	10 - 10	8/16/1994	25	U
SB-09104	1 - 1	8/16/1994	25	U
SB-09104	7.5 - 7.5	8/16/1994	25	U
SB-09104	10 - 10	8/16/1994	25	U
SB-08201	6.5 - 6.5	12/21/1993	25	U

South Yard Area COC Results
TPH-Diesel Range Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH - Diesel Range (mg/kg) - 2004 Soil Screening Level = 2,000 mg/kg; PMCL = 200 mg/kg[3]				
SB-08201	8 - 8	12/21/1993	25	U
SB-08201	11 - 11	12/21/1993	25	U
SB-08303	5 - 5	12/13/1993	25	U
SB-08603	7.5 - 7.5	12/9/1993	25	U
SB-08603	10 - 10	12/9/1993	25	U
SB-06901	7.5 - 7.5	12/3/1993	25	U
SB-06901	10 - 10	12/3/1993	25	U
PL2-318A	7.5 - 7.5	11/30/1993	25	U

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH - Gasoline Range (mg/kg) - 2004 Soil Screening Level = 30 mg/kg; PMCL = 100 mg/kg[3]				
PL2-603A	0 - 1.5	2/28/2005	6.7	U
PL2-603A	3.5 - 5	2/28/2005	6.4	U
PL2-603A	8.5 - 10	2/28/2005	6.7	U
SB-08716	3 - 5	11/25/1998	20	U
SB-08716	8 - 10	11/25/1998	20	U
SB-08717	3 - 5	11/25/1998	20	U
SB-08717	8 - 10	11/25/1998	20	U
SB-08718	3 - 5	11/25/1998	20	U
SB-08718	8 - 10	11/25/1998	20	U
SB-08719	3 - 5	11/25/1998	20	U
SB-08719	8 - 10	11/25/1998	20	U
SB-08720	3 - 5	11/25/1998	20	U
SB-08720	8 - 10	11/25/1998	20	U
SB-08721	3 - 5	11/25/1998	20	U
SB-08721	8 - 10	11/25/1998	20	U
SB-08722	3 - 5	11/25/1998	20	U
SB-08722	8 - 10	11/25/1998	20	U
SB-08723	3 - 5	11/25/1998	20	U
SB-08723	8 - 10	11/25/1998	20	U
SB-08724	3 - 5	11/25/1998	20	U
SB-08724	8 - 10	11/25/1998	20	U
SB-08930	3 - 5	11/24/1998	20	U
SB-08930	8 - 10	11/24/1998	20	U
SB-08931	3 - 5	11/24/1998	20	U
SB-08931	8 - 10	11/24/1998	20	U
SB-08932	3 - 5	11/24/1998	20	U
SB-08932	8 - 10	11/24/1998	20	U
SB-08933	3 - 5	11/24/1998	20	U
SB-08933	8 - 10	11/24/1998	20	U
SB-08934	3 - 5	11/24/1998	20	U
SB-08934	8 - 10	11/24/1998	20	U
SB-08935	3 - 5	11/24/1998	20	U
SB-08935	8 - 10	11/24/1998	20	U
SB-08936	3 - 5	11/24/1998	20	U
SB-08936	8 - 10	11/24/1998	20	U
SB-08937	3 - 5	11/24/1998	20	U
SB-08937	8 - 10	11/24/1998	20	U
SB-08938	3 - 5	11/24/1998	20	U
SB-08938	8 - 10	11/24/1998	20	U
SB-08939	3 - 5	11/24/1998	20	U
SB-08939	8 - 10	11/24/1998	20	U
SB-08940	3 - 5	11/24/1998	20	U
SB-08940	8 - 10	11/24/1998	20	U
SB-08013	5 - 5	2/22/1995	5	U
SB-08013	9 - 9	2/22/1995	5	U
SB-08013	12 - 12	2/22/1995	5	U
SB-08014	5 - 5	2/22/1995	5	U
SB-08014	7 - 7	2/22/1995	5	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH - Gasoline Range (mg/kg) - 2004 Soil Screening Level = 30 mg/kg; PMCL = 100 mg/kg[3]				
SB-08014	7 - 7	2/22/1995	5	U
SB-08014	11 - 11	2/22/1995	5	U
SB-08305	1 - 1	2/22/1995	20	U
SB-08305	5 - 5	2/22/1995	20	U
SB-08009	0.6 - 0.6	2/16/1995	20	U
SB-08009	6 - 6	2/16/1995	20	U
SB-08010	0.5 - 0.5	2/16/1995	20	U
SB-08010	6 - 6	2/16/1995	20	U
SB-08008	3.5 - 3.5	2/15/1995	5	U
SB-08008	6.5 - 6.5	2/15/1995	5	U
SB-08008	11.5 - 11.5	2/15/1995	5	U
SB-08005	11 - 11	9/22/1994	5	U
SB-08005	11 - 11	9/22/1994	5	U
SB-08005	2 - 2	9/16/1994	2100	
SB-11001	6 - 6	9/12/1994	20	U
SB-11001	9.5 - 9.5	9/12/1994	20	U
SB-11001	9.5 - 9.5	9/12/1994	20	U
SB-08301	1.5 - 1.5	9/3/1994	20	U
SB-08301	4.5 - 4.5	9/3/1994	20	UJ
SB-08301	11.5 - 11.5	9/3/1994	20	U
SB-08302	2 - 2	9/3/1994	20	U
SB-08302	5 - 5	9/3/1994	20	U
SB-08302	11 - 11	9/3/1994	20	U
SB-08925	1.5 - 1.5	8/18/1994	20	U
SB-08925	5.5 - 5.5	8/18/1994	20	U
SB-08925	8 - 8	8/18/1994	20	U
SB-08006	5 - 5	8/16/1994	5	U
SB-08006	7.5 - 7.5	8/16/1994	5	U
SB-08006	10 - 10	8/16/1994	5	U
SB-08007	5 - 5	8/16/1994	5	U
SB-08007	7.5 - 7.5	8/16/1994	5	U
SB-08007	10 - 10	8/16/1994	5	U
SB-09102	1 - 1	8/16/1994	20	U
SB-09102	1 - 1	8/16/1994	20	U
SB-09102	5 - 5	8/16/1994	20	U
SB-09102	7.5 - 7.5	8/16/1994	20	U
SB-09103	2.5 - 2.5	8/16/1994	20	U
SB-09103	7.5 - 7.5	8/16/1994	20	U
SB-09103	10 - 10	8/16/1994	20	U
SB-09104	1 - 1	8/16/1994	20	U
SB-09104	7.5 - 7.5	8/16/1994	20	U
SB-09104	10 - 10	8/16/1994	20	U
SB-08201	6.5 - 6.5	12/21/1993	20	U
SB-08201	8 - 8	12/21/1993	20	U
SB-08201	11 - 11	12/21/1993	20	U
SB-08303	5 - 5	12/13/1993	20	U
SB-08603	7.5 - 7.5	12/9/1993	20	U
SB-08603	10 - 10	12/9/1993	20	U

South Yard Area COC Results
TPH-Gasoline Range Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH - Gasoline Range (mg/kg) - 2004 Soil Screening Level = 30 mg/kg; PMCL = 100 mg/kg[3]				
SB-06901	7.5 - 7.5	12/3/1993	20	U
SB-06901	10 - 10	12/3/1993	20	U
PL2-318A	7.5 - 7.5	11/30/1993	20	U
EX-1	8 - 8	10/23/1992	1200	
EX-3	8 - 8	10/23/1992	14000	
EX-5	10.5 - 10.5	10/23/1992	19	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH (mg/kg) - 2004 Soil Screening Level = 2,000 mg/kg; PMCL = 200 mg/kg[3]				
SB-08738	10 - 10	7/20/1999	14	
SB-08741	5 - 5	7/20/1999	11	U
SB-08742	10 - 10	7/20/1999	13	
SB-08714	2 - 2	9/22/1995	13	U
SB-08714	7 - 7	9/22/1995	140	
SB-08714	10 - 10	9/22/1995	13	U
SB-08715	2 - 2	9/22/1995	11	U
SB-08715	2 - 2	9/22/1995	12	U
SB-08715	7 - 7	9/22/1995	51	
SB-08715	9.5 - 9.5	9/22/1995	13	U
SB-08003	1.5 - 1.5	8/18/1994	16	
SB-08003	8 - 8	8/18/1994	19	
SB-08003	10 - 10	8/18/1994	19	
SB-08004	3.5 - 3.5	8/18/1994	47	
SB-08004	8 - 8	8/18/1994	130	
SB-08004	12 - 12	8/18/1994	14	U
SB-08915	2 - 2	8/17/1994	2500	
SB-08915	5 - 5	8/17/1994	270	
SB-08915	7.5 - 7.5	8/17/1994	14	U
SB-08601	1.5 - 1.5	12/20/1993	11	U
SB-08601	7 - 7	12/20/1993	27	
SB-08601	11 - 11	12/20/1993	13	U
SB-08903	5 - 5	12/13/1993	12	U
SB-08903	5 - 5	12/13/1993	48	
SB-08901	5 - 5	12/11/1993	42	
SB-08901	7.5 - 7.5	12/11/1993	13	U
PL2-111A	1 - 1	12/9/1993	21	
PL2-111A	5 - 5	12/9/1993	15	
SB-08602	1 - 1	12/9/1993	15	
SB-08602	5 - 5	12/9/1993	26	
SB-08904	1 - 1	12/9/1993	11	U
SB-08904	5 - 5	12/9/1993	12	U
SB-28201	1 - 1	12/9/1993	12	
SB-28201	5 - 5	12/9/1993	12	U
SS-09101	0 - 0.5	11/29/1993	9500	
SS-09112	0 - 0.5	11/29/1993	34000	
SS-09103	0 - 0.5	11/24/1993	220	
SS-09111	0 - 0.5	11/23/1993	320	J
SS-09111	0 - 0.5	11/23/1993	150	J
SS-09104	0 - 0.5	11/22/1993	54000	
SS-09102	0 - 0.5	11/19/1993	21000	
SS-09109	0 - 0.5	11/19/1993	29	
SS-09106	0 - 0.5	11/18/1993	49	
SS-09108	0 - 0.5	11/17/1993	4300	
SS-09110	0 - 0.5	11/17/1993	99	
SS-09105	0 - 0.5	11/16/1993	14000	
SS-09107	0 - 0.5	11/16/1993	4100	
PL2-301A	5 - 5	7/8/1992	10	U

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH (mg/kg) - 2004 Soil Screening Level = 2,000 mg/kg; PMCL = 200 mg/kg[3]				
PL2-301A	10 - 10	7/8/1992	10	U
PL2-302A	5 - 5	7/8/1992	10	U
PL2-302A	10 - 10	7/8/1992	10	U
PL2-303A	5 - 5	7/8/1992	10	U
PL2-303A	10 - 10	7/8/1992	10	U
PL2-303A	10 - 10	7/8/1992	10	U
PL2-109B	9 - 9	7/7/1992	10	U
PL2-109C	6 - 6	7/6/1992	10	U
PL2-109C	9 - 9	7/6/1992	10	U
PL2-105C	3 - 3	6/25/1992	10	U
PL2-105C	10 - 10	6/25/1992	10	U
PL2-104B	6 - 6	6/24/1992	10	U
PL2-104B	11 - 11	6/24/1992	10	U
PL2-110C	6 - 6	6/22/1992	13	
PL2-110C	9 - 9	6/22/1992	12	
PL2-106C	7 - 7	6/18/1992	10	U
PL2-106C	12 - 12	6/18/1992	10	U
PL31-B1	9 - 9	3/24/1992	10	U
PL31-B2	8.5 - 8.5	3/24/1992	10	U
PL31-P1	1.8 - 1.8	3/24/1992	10	U
PL31-S1	4.6 - 4.6	3/24/1992	10	U
PL31-S2	5 - 5	3/24/1992	10	U
PL31-S3	5.5 - 5.5	3/24/1992	10	U
PL31-S4	5.9 - 5.9	3/24/1992	10	U
PL66-B1	5.5 - 5.5	10/28/1991	10	U
PL66-B1	10.5 - 10.5	10/28/1991	10	U
PL66-B2	5.5 - 5.5	10/28/1991	10	U
PL66-B2	10.5 - 10.5	10/28/1991	10	U
288-16	4 - 4	8/14/1991	13	
288-17	4 - 4	8/14/1991	9300	
288-18	4 - 4	8/14/1991	10	U
288-19	4 - 4	8/14/1991	3100	
288-20	4 - 4	8/14/1991	200	
288-21	4 - 4	8/14/1991	10	U
288-22	4 - 4	8/14/1991	10	U
288-23	4 - 4	8/14/1991	10	U
288-24	4 - 4	8/14/1991	10	U
288-1	3 - 3	8/13/1991	10	U
288-1	8 - 8	8/13/1991	45	
288-10	1.5 - 1.5	8/13/1991	230	
288-11	0.5 - 0.5	8/13/1991	29	
288-12	0.5 - 0.5	8/13/1991	10	U
288-14	3 - 3	8/13/1991	3200	
288-14	8 - 8	8/13/1991	20	
288-2	3 - 3	8/13/1991	10	U
288-2	8 - 8	8/13/1991	36	
288-3	3 - 3	8/13/1991	10	U
288-4	3 - 3	8/13/1991	2400	

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH (mg/kg) - 2004 Soil Screening Level = 2,000 mg/kg; PMCL = 200 mg/kg[3]				
288-5	1 - 1	8/13/1991	5600	
288-5	3 - 3	8/13/1991	5400	
288-6	1 - 1	8/13/1991	17000	
288-6	3 - 3	8/13/1991	27000	
288-7	3 - 3	8/13/1991	12	
288-8	3 - 3	8/13/1991	10	U
288-8	8 - 8	8/13/1991	36	
288-9	1.5 - 1.5	8/13/1991	160	
PL2-115A	2 - 2	7/27/1989	130	
PL2-115A	5 - 5	7/27/1989	30	
PL2-115A	8.5 - 8.5	7/27/1989	10	U
PL2-115A	10 - 10	7/27/1989	10	U
PL2-116A	2 - 2	7/26/1989	10	U
PL2-116A	5 - 5	7/26/1989	10	U
PL2-116A	8.5 - 8.5	7/26/1989	10	U
PL2-116A	10 - 10	7/26/1989	10	U
SB291-16	2 - 2	7/26/1989	10	U
SB291-16	5 - 5	7/26/1989	6000	
SB291-16	9.5 - 9.5	7/26/1989	10	U
SB291-17	2 - 2	7/26/1989	10	U
SB291-17	5 - 5	7/26/1989	10	U
SB291-17	9.5 - 9.5	7/26/1989	10	U
SB297-2	2 - 2	7/25/1989	10	U
SB297-2	5 - 5	7/25/1989	10	U
SB297-2	10.5 - 10.5	7/25/1989	10	U
SB297-3	2 - 2	7/25/1989	10	U
SB297-3	5 - 5	7/25/1989	12	
SB297-3	9.5 - 9.5	7/25/1989	10	U
SB291-3	2.5 - 2.5	1/12/1989	1	U
SB291-3	5 - 5	1/12/1989	56827	
SB291-3	7.5 - 7.5	1/12/1989	11684	
SB291-3	9.5 - 9.5	1/12/1989	103	
SB291-4	2.5 - 2.5	1/12/1989	9	
SB291-4	5 - 5	1/12/1989	16	
SB291-4	9.5 - 9.5	1/12/1989	1	U
SB291-5	2.5 - 2.5	1/12/1989	1	U
SB291-5	5 - 5	1/12/1989	12	
SB291-5	9.5 - 9.5	1/12/1989	1	U
SB291-6	2.5 - 7.5	1/12/1989	866	
SB291-7	2.5 - 2.5	1/12/1989	1	U
SB291-9	2.5 - 2.5	1/12/1989	2968	
SB291-9	5 - 5	1/12/1989	4128	
SB291-9	9.5 - 9.5	1/12/1989	1	U
PL2-117A	2.5 - 2.5	1/11/1989	2	
PL2-117A	5 - 5	1/11/1989	37	
PL2-117A	7.5 - 7.5	1/11/1989	1	U
PL2-117A	10 - 10	1/11/1989	1	U
SB291-10	2.5 - 2.5	1/11/1989	9293	

South Yard Area COC Results
TPH Concentrations in Soil

Sample Location	Sample Interval[1] (ft. bgs)	Sample Date	Concentration (mg/kg)	Data Qualifier[2]
TPH (mg/kg) - 2004 Soil Screening Level = 2,000 mg/kg; PMCL = 200 mg/kg[3]				
SB291-10	5 - 5	1/11/1989	1	U
SB291-10	10 - 10	1/11/1989	1	U
SB291-8	2.5 - 2.5	1/11/1989	2379	
SB291-8	5 - 5	1/11/1989	2	
SB291-8	10 - 10	1/11/1989	17	
PL2-112A	2 - 2	1/10/1989	13001	
PL2-112A	5.5 - 5.5	1/10/1989	51665	
PL2-112A	8 - 8	1/10/1989	18	
PL2-112A	10.5 - 10.5	1/10/1989	1	U
PL2-113A	2 - 2	1/10/1989	41	
PL2-113A	5.5 - 5.5	1/10/1989	138	
PL2-113A	8 - 8	1/10/1989	1	U
PL2-113A	10.5 - 10.5	1/10/1989	8	
PL2-114A	2 - 2	1/10/1989	4482	
PL2-114A	8 - 8	1/10/1989	100	
PL2-114A	10.5 - 10.5	1/10/1989	2	

Note: (1) - Data restricted from surface to 12ft bgs.
(2) - Definitions for data qualifiers are provided on Table F-3.
(3) - PMCL - Preliminary Media Cleanup Level (Weston, 1999).

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 2 of 2

Attachment G
Laboratory Data Reports
Data Validation and QA/QC
Review Reports

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Table of Contents

List of Tables

Table G-1 Data Gap Investigation Samples by Sample Delivery Group (SDG)

List of Attachments

Attachment G-1 Laboratory Data Summary Packages (ordered by SDG) – provided electronically on CD only

Attachment G-2 Data Validation Reports, Checklists and Validated Form 1s (ordered by SDG) – provided electronically on CD only

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Table G-1 Data Gap Investigation Samples by Sample Delivery Group
South Yard Area
Boeing Plant 2

Sample Name	Sample Type	Sample Delivery Group
SY-PL2-603A-1.5	Soil	HT96
SY-PL2-603A-10	Soil	HT96
SY-PL2-603A-5	Soil	HT96
SY-PL2-601A-1.5	Soil	HU16
SY-PL2-601A-10	Soil	HU16
SY-PL2-601A-5	Soil	HU16
SY-PL2-602A-1.5	Soil	HU16
SY-PL2-602A-10	Soil	HU16
SY-PL2-602A-5	Soil	HU16
DP-SY-2-1	Soil	HU77
DP-SY-2-10	Soil	HU77
DP-SY-2-5	Soil	HU77
DP-SY-3-1	Soil	HU77
DP-SY-3-10	Soil	HU77
DP-SY-3-5	Soil	HU77
DP-SY-4-1	Soil	HU77
DP-SY-4-10	Soil	HU77
DP-SY-4-5	Soil	HU77
DP-SY-5-1	Soil	HU77
DP-SY-5-10	Soil	HU77
DP-SY-5-5	Soil	HU77
DP-SY-6-1	Soil	HU77
DP-SY-6-10	Soil	HU77
DP-SY-6-5	Soil	HU77
DP-SY-7-1	Soil	HU77
DP-SY-7-10	Soil	HU77
DP-SY-7-5	Soil	HU77
DP-SY-8-1	Soil	HU77
DP-SY-8-10	Soil	HU77
DP-SY-8-5	Soil	HU77
DP-SY-10-1	Soil	HU97
DP-SY-10-10	Soil	HU97
DP-SY-10-5	Soil	HU97
DP-SY-1-1	Soil	HU97
DP-SY-1-10	Soil	HU97
DP-SY-11-1	Soil	HU97
DP-SY-11-10	Soil	HU97
DP-SY-11-5	Soil	HU97
DP-SY-12-1	Soil	HU97
DP-SY-12-10	Soil	HU97
DP-SY-12-5	Soil	HU97
DP-SY-1-5	Soil	HU97
DP-SY-9-1	Soil	HU97
DP-SY-9-10	Soil	HU97
DP-SY-9-5	Soil	HU97
SY-PL2-603A-10EB	Equipment Blank	HT96

South Yard Area
Boeing Plant 2

Sample Name	Sample Type	Sample Delivery Group
SY-PL2-601A-10EB	Equipment Blank	HU16
SY-PL2-602A-10EB	Equipment Blank	HU16
DP-SY-4-10EB	Equipment Blank	HU77
SY-DP-02-15	Groundwater	HU76
SY-DP-02-15-F	Groundwater	HU76
SY-DP-03-15	Groundwater	HU76
SY-DP-03-15-1	Groundwater	HU76
SY-DP-03-15-F	Groundwater	HU76
SY-DP-03-15-F-1	Groundwater	HU76
SY-DP-04-15	Groundwater	HU76
SY-DP-04-15-F	Groundwater	HU76
SY-DP-05-15	Groundwater	HU76
SY-DP-05-15-F	Groundwater	HU76
SY-DP-06-15	Groundwater	HU76
SY-DP-06-15-F	Groundwater	HU76
SY-DP-07-15	Groundwater	HU76
SY-DP-07-15-F	Groundwater	HU76
SY-DP-08-15	Groundwater	HU76
SY-DP-08-15-F	Groundwater	HU76
SY-DP-01-15	Groundwater	HU86
SY-DP-01-15-F	Groundwater	HU86
SY-DP-09-15	Groundwater	HU86
SY-DP-09-15-F	Groundwater	HU86
SY-DP-10-18	Groundwater	HU86
SY-DP-10-18-F	Groundwater	HU86
SY-DP-11-17	Groundwater	HU86
SY-DP-11-17-F	Groundwater	HU86
SY-DP-12-15	Groundwater	HU86
SY-DP-12-15-F	Groundwater	HU86
SY-PL2-153A	Groundwater	HV02
SY-PL2-153A-F	Groundwater	HV02
SY-PL2-153B	Groundwater	HV02
SY-PL2-153B-F	Groundwater	HV02
SY-PL2-153C	Groundwater	HV02
SY-PL2-153C-F	Groundwater	HV02
SY-PL2-120A	Groundwater	HV22
SY-PL2-120A-F	Groundwater	HV22
SY-PL2-154A	Groundwater	HV22
SY-PL2-154A-F	Groundwater	HV22
SY-PL2-154B	Groundwater	HV22
SY-PL2-154B-F	Groundwater	HV22
SY-PL2-154C	Groundwater	HV22
SY-PL2-154C-F	Groundwater	HV22
SY-PL2-11156A-1	Groundwater	HV41
SY-PL2-11156A-F-1	Groundwater	HV41
SY-PL2-151A	Groundwater	HV41
SY-PL2-151A-F	Groundwater	HV41
SY-PL2-151B	Groundwater	HV41

South Yard Area
Boeing Plant 2

Sample Name	Sample Type	Sample Delivery Group
SY-PL2-151B-F	Groundwater	HV41
SY-PL2-151C	Groundwater	HV41
SY-PL2-151C-F	Groundwater	HV41
SY-PL2-156A	Groundwater	HV41
SY-PL2-156A-F	Groundwater	HV41
SY-PL2-106A	Groundwater	HV52
SY-PL2-106A-F	Groundwater	HV52
SY-PL2-106B	Groundwater	HV52
SY-PL2-106B-F	Groundwater	HV52
SY-PL2-106C	Groundwater	HV52
SY-PL2-106C-F	Groundwater	HV52
SY-PL2-155A	Groundwater	HV52
SY-PL2-155A-F	Groundwater	HV52
SY-PL2-155B	Groundwater	HV52
SY-PL2-155B-F	Groundwater	HV52
SY-PL2-155C	Groundwater	HV52
SY-PL2-155C-F	Groundwater	HV52
SY-PL2-601A	Groundwater	HV52
SY-PL2-601A-F	Groundwater	HV52
SY-PL2-955A	Groundwater	HV52
SY-PL2-955A-F	Groundwater	HV52
SY-PL2-115A	Groundwater	HV67
SY-PL2-115A-F	Groundwater	HV67
SY-PL2-152A	Groundwater	HV67
SY-PL2-152A-F	Groundwater	HV67
SY-PL2-152B	Groundwater	HV67
SY-PL2-152B-F	Groundwater	HV67
SY-PL2-152C	Groundwater	HV67
SY-PL2-152C-F	Groundwater	HV67
SY-PL2-601B	Groundwater	HV67
SY-PL2-601B-F	Groundwater	HV67
SY-PL2-602A	Groundwater	HV67
SY-PL2-602A-F	Groundwater	HV67
SY-PL2-602B	Groundwater	HV67
SY-PL2-602B-F	Groundwater	HV67
SY-PL2-603A	Groundwater	HV67
SY-PL2-603A-F	Groundwater	HV67
SY-PL2-603B	Groundwater	HV67
SY-PL2-603B-F	Groundwater	HV67
SY-PL2-903B	Groundwater	HV67
SY-PL2-903B-F	Groundwater	HV67
SY-PL2-110C	Groundwater	HV86
SY-PL2-110C-F	Groundwater	HV86
SY-PL2-112A	Groundwater	HV86
SY-PL2-112A-F	Groundwater	HV86
SY-PL2-112B	Groundwater	HV86
SY-PL2-112B-F	Groundwater	HV86
SY-PL2-113A	Groundwater	HV86

South Yard Area
Boeing Plant 2

Sample Name	Sample Type	Sample Delivery Group
SY-PL2-113A-F	Groundwater	HV86
SY-PL2-116A	Groundwater	HV86
SY-PL2-116A-F	Groundwater	HV86
SY-PL2-117A	Groundwater	HV86
SY-PL2-117A-F	Groundwater	HV86
SY-PL2-912A	Groundwater	HV86
SY-PL2-912A-F	Groundwater	HV86
SY-DP-11-19	Groundwater	IC01
SY-DP-12-15-05202005	Groundwater	IC01
SY-PL2-151A-05202005	Groundwater	IC01
SY-PL2-152A-05202005	Groundwater	IC01
SY-PL2-602A-05202005	Groundwater	IC01

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 2 of 2

Attachment G-1
Laboratory Data Reports

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 19, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (013-1646-002.200)
ARI Job No: HT96

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted three soil samples, two water samples and a trip blank in good condition on February 28, 2005. The samples were received at a cooler temperature of 6.0°C.

As requested, the samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, NWTPH-Dx, NWTPH-G, and total priority pollutant metals.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HT96

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HT96	Turn-around Requested:	Page: 1	of
ARI Client Company: GOLDER ASSOCIATES	Phone: (425) 883-0777	Date: 2/28/05	Ice Present?
Client Contact: TED NORTON		No. of Coolers:	Cooler Temps: 6.0
Client Project Name: P2DG - South Yard Area			
Client Project #: 013-1646-002.200	Samplers: C. KING		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs (8260B)	SVOCs (8270C)	PCBs (8082)	Priority Pollutant Metals 200.8/3500	6010/7000 series	WTPH-g	WTPH-dx		Notes/Comments
SY-PL2-603A-1.5	2/28/05	1:15pm	Soil	4	X	X	X	X		X	X		Sample interval 0.5'-1.5'
SY-PL2-603A-5		1:27pm		4	X	X	X	X		X	X		Sample Interval 3.5'-5'
SY-PL2-603A-10		1:38pm		6	X	X	X	X		X	X		Sample Interval 8.5'-10' 1 MS + 1 MSD included for SVOCs, PCBs, Metals
SY-PL2-603A-10EB		1:48pm	WATER	2						X			WTPHg Equipment Blank
SY-PL2-603A-10EB		1:48pm	WATER	2							X		WTPHd Equipment Blank

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
000002	Printed Name: CHRIS KING	Printed Name: ERIC JOHNSON	Printed Name:	Printed Name:
	Company: Golder Associates	Company: ARI	Company:	Company:
	Date & Time: 2/28/05 - 1510	Date & Time: 2/29/05 - 1510	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HT96

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HT96
March 19, 2005

Volatile Organics by Method 8260B:

The samples were analyzed on 3/7/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The soil samples were screened prior to extraction on 3/04/05. The samples were analyzed on 3/11/05 and 3/14/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-PL2-603A-10**. All percent recoveries for the analytes of interest were within compliance. The RPDs are elevated due to MSD extract being blown down too low, resulting in spike and surrogate loss. The surrogate recoveries are consistent with the MS spike loss which reflects the inconsistency in the spike recoveries.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The soil samples were screened prior to extraction on 3/04/05. The samples were analyzed on 3/07/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: Dibenz(a,h)anthracene is "M" flagged in sample **SY-PL2-603A-5.** The "M" indicates an estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-PL2-603A-10.** All percent recoveries and RPDs for the analytes of interest were within compliance.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HT96
March 19, 2005

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The soil samples were screened prior to extraction on 3/04/05. The samples were analyzed on 3/08/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-PL2-603A-10**. All percent recoveries and RPDs were within compliance.

LCS (s): All percent recoveries were within compliance.

NWTPH-G

The soil samples were analyzed on 3/04/05 within the method recommended holding time. The water samples were analyzed on 3/03/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-PL2-603A-10**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

NWTPH-D plus Motor Oil

The soil samples were extracted on 3/03/05 and were analyzed on 3/05/05 within the method recommended holding time. The water samples were extracted on 3/04/05 and were analyzed on 3/11/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HT96
March 19, 2005

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-PL2-603A-10**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Total Metals by Methods 6010 and 7471

The samples were prepared on 3/03/05 and were analyzed between 3/04/05 and 3/07/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of the element contamination.

Samples: No anomalies were encountered for these samples.

Matrix Spike: The matrix spike was analyzed in association with sample **SY-PL2-603A-10**. The percent recovery for antimony was low following the initial analysis of the MS. The percent recovery for antimony was recovered within the established advisory range for the corresponding LCS. Since it is expected and documented that antimony is not recovered adequately in the sediment or solid matrix using prep method 3050B, no corrective actions were taken based on the antimony recovery in the MS. If antimony is a metal of particular concern, an alternative and stronger preparation would be recommended for this element only.

The aluminum and magnesium percent recoveries were out of control MS due to the large amount of aluminum and magnesium present in the native sample in relation to the amount of spike added. No corrective action was taken.

Matrix Duplicate: The matrix duplicate was analyzed in association with sample **SY-PL2-603A-10**. The RPDs for beryllium, chromium, magnesium, and nickel were out of control due to sample heterogeneity. No corrective action was taken.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HT96

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8260 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCE	TOL	BFB	DCB	TOT OUT
MB-030705	96.9%	102%	92.9%	101%	0
LCS-030705	92.6%	105%	97.6%	101%	0
LCSD-030705	93.0%	110%	95.9%	99.6%	0
SY-PL2-603A-1.5	91.1%	111%	88.9%	101%	0
SY-PL2-603A-5	93.4%	107%	90.7%	102%	0
SY-PL2-603A-10	90.1%	108%	87.0%	102%	0

	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(74-128)	(71-143)
(TOL) = d8-Toluene	(76-119)	(79-118)
(BFB) = Bromofluorobenzene	(78-116)	(69-126)
(DCB) = d4-1,2-Dichlorobenzene	(78-122)	(79-119)

Prep Method: SW5030
Analytical Method: SW8260B
Log Number Range: 05-3839 to 05-3841

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL QC Report No: HT96

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
HT96E	TRIP BLANK	91.6%	111%	88.9%	101%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-030705
METHOD BLANK

Lab Sample ID: MB-030705
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 12:53

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.9%
d8-Toluene	102%
Bromofluorobenzene	92.9%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 18:22

Sample Amount: 4.71 g-dry-wt
Percent Moisture: 9.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.3	< 5.3 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.3	< 5.3 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.3	< 5.3 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.3	< 5.3 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3	< 5.3 U
591-78-6	2-Hexanone	5.3	< 5.3 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.1%
d8-Toluene	111%
Bromofluorobenzene	88.9%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-603A-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 18:49

Sample Amount: 5.04 g-dry-wt
Percent Moisture: 5.5%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.4%
d8-Toluene	107%
Bromofluorobenzene	90.7%
d4-1,2-Dichlorobenzene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 19:17

Sample Amount: 4.51 g-dry-wt
Percent Moisture: 9.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	Acetone	5.5	< 5.5 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.5	< 5.5 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.5	< 5.5 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5 U
591-78-6	2-Hexanone	5.5	< 5.5 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.1%
d8-Toluene	108%
Bromofluorobenzene	87.0%
d4-1,2-Dichlorobenzene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HT96E
LIMS ID: 05-3843
Matrix: Water
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 01/18/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 17:50

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.6%
d8-Toluene	111%
Bromofluorobenzene	88.9%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-030705
LCS/LCSD

Lab Sample ID: LCS-030705
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
LCSD: FINN5/JA
Date Analyzed: 03/07/05 11:49
LCSD: 03/07/05 12:25

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	44.0	50.0	88.0%	43.7	50.0	87.4%	0.7%
Bromomethane	44.0	50.0	88.0%	43.8	50.0	87.6%	0.5%
Vinyl Chloride	42.6	50.0	85.2%	41.6	50.0	83.2%	2.4%
Chloroethane	48.9	50.0	97.8%	48.9	50.0	97.8%	0.0%
Methylene Chloride	55.7	50.0	111%	55.0	50.0	110%	1.3%
Acetone	260	250	104%	295	250	118%	12.6%
Carbon Disulfide	63.1	50.0	126%	60.1	50.0	120%	4.9%
1,1-Dichloroethene	52.3	50.0	105%	49.7	50.0	99.4%	5.1%
1,1-Dichloroethane	53.9	50.0	108%	52.3	50.0	105%	3.0%
trans-1,2-Dichloroethene	53.7	50.0	107%	51.1	50.0	102%	5.0%
cis-1,2-Dichloroethene	53.2	50.0	106%	54.8	50.0	110%	3.0%
Chloroform	51.8	50.0	104%	48.4	50.0	96.8%	6.8%
1,2-Dichloroethane	50.5	50.0	101%	50.2	50.0	100%	0.6%
2-Butanone	276	250	110%	303	250	121%	9.3%
1,1,1-Trichloroethane	50.6	50.0	101%	50.0	50.0	100%	1.2%
Carbon Tetrachloride	51.2	50.0	102%	47.8	50.0	95.6%	6.9%
Vinyl Acetate	53.4	50.0	107%	55.7	50.0	111%	4.2%
Bromodichloromethane	50.5	50.0	101%	50.9	50.0	102%	0.8%
1,2-Dichloropropane	55.1	50.0	110%	56.4	50.0	113%	2.3%
cis-1,3-Dichloropropene	57.6	50.0	115%	57.2	50.0	114%	0.7%
Trichloroethene	52.6	50.0	105%	51.9	50.0	104%	1.3%
Dibromochloromethane	54.1	50.0	108%	52.0	50.0	104%	4.0%
1,1,2-Trichloroethane	50.4	50.0	101%	50.1	50.0	100%	0.6%
Benzene	54.8	50.0	110%	53.4	50.0	107%	2.6%
trans-1,3-Dichloropropene	56.2	50.0	112%	55.7	50.0	111%	0.9%
2-Chloroethylvinylether	51.8	50.0	104%	53.5	50.0	107%	3.2%
Bromoform	55.3	50.0	111%	53.8	50.0	108%	2.7%
4-Methyl-2-Pentanone (MIBK)	237	250	94.8%	252	250	101%	6.1%
2-Hexanone	291	250	116%	305	250	122%	4.7%
Tetrachloroethene	57.8	50.0	116%	54.7	50.0	109%	5.5%
1,1,2,2-Tetrachloroethane	56.1	50.0	112%	56.0	50.0	112%	0.2%
Toluene	47.9	50.0	95.8%	45.6	50.0	91.2%	4.9%
Chlorobenzene	46.4	50.0	92.8%	43.0	50.0	86.0%	7.6%
Ethylbenzene	48.9	50.0	97.8%	44.5	50.0	89.0%	9.4%
Styrene	47.2	50.0	94.4%	43.2	50.0	86.4%	8.8%
Trichlorofluoromethane	44.3	50.0	88.6%	45.2	50.0	90.4%	2.0%
1,1,2-Trichloro-1,2,2-trifl	52.3	50.0	105%	50.0	50.0	100%	4.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-030705**
 LCS/LCSD

Lab Sample ID: LCS-030705
LIMS ID: 05-3839
Matrix: Soil
Date Analyzed: 03/07/05 11:49
LCSD: 03/07/05 12:25

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	96.1	100	96.1%	87.1	100	87.1%	9.8%
o-Xylene	51.3	50.0	103%	47.6	50.0	95.2%	7.5%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	92.6%	93.0%
d8-Toluene	105%	110%
Bromofluorobenzene	97.6%	95.9%
d4-1,2-Dichlorobenzene	101%	99.6%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-030405	55.2%	56.8%	68.0%	58.4%	56.0%	48.5%	58.1%	57.3%	0
LCS-030405	52.4%	55.2%	66.0%	54.0%	53.6%	50.7%	58.9%	54.9%	0
LCSD-030405	61.2%	62.8%	70.8%	62.8%	61.9%	53.6%	64.8%	62.9%	0
SY-PL2-603A-1.5	48.4%	52.8%	62.4%	50.0%	50.1%	38.1%	49.3%	46.9%	0
SY-PL2-603A-5	56.8%	61.2%	67.2%	57.2%	58.9%	53.1%	64.3%	60.0%	0
SY-PL2-603A-10	52.8%	56.8%	60.0%	54.0%	53.9%	51.5%	58.4%	54.9%	0
SY-PL2-603A-10 MS	60.0%	61.2%	69.2%	60.8%	61.6%	56.8%	67.5%	64.5%	0
SY-PL2-603A-10 MSD	46.8%	45.6%	56.8%	48.4%	43.7%	42.1%	51.7%	49.6%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(24-100)	(7-113)
(FBP) = 2-Fluorobiphenyl	(27-108)	(30-99)
(TPH) = d14-p-Terphenyl	(38-134)	(39-116)
(DCB) = d4-1,2-Dichlorobenzene	(24-96)	(23-84)
(PHL) = d5-Phenol	(34-99)	(27-97)
(2FP) = 2-Fluorophenol	(35-102)	(33-93)
(TBP) = 2,4,6-Tribromophenol	(28-113)	(22-127)
(2CP) = d4-2-Chlorophenol	(33-97)	(30-94)

Prep Method: SW3550B
Log Number Range: 05-3839 to 05-3841

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-030405
METHOD BLANK

Lab Sample ID: MB-030405
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/04/05
Date Analyzed: 03/11/05 20:36
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-030405
METHOD BLANK

Lab Sample ID: MB-030405
LIMS ID: 05-3839
Matrix: Soil
Date Analyzed: 03/11/05 20:36

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.2%	2-Fluorobiphenyl	56.8%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	56.0%	2-Fluorophenol	48.5%
2,4,6-Tribromophenol	58.1%	d4-2-Chlorophenol	57.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/11/05 22:18
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.4%
pH: 6.7

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Date Analyzed: 03/11/05 22:18

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	48.4%	2-Fluorobiphenyl	52.8%
d14-p-Terphenyl	62.4%	d4-1,2-Dichlorobenzene	50.0%
d5-Phenol	50.1%	2-Fluorophenol	38.1%
2,4,6-Tribromophenol	49.3%	d4-2-Chlorophenol	46.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/11/05 22:52
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.66 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 4.7%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Date Analyzed: 03/11/05 22:52

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	**Phenanthrene**	**65**	**68**
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	**Di-n-Butylphthalate**	**65**	**80**
206-44-0	**Fluoranthene**	**65**	**170**
129-00-0	**Pyrene**	**65**	**180**
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	**Benzo(a)anthracene**	**65**	**78**
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	**Chrysene**	**65**	**91**
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	**Benzo(k)fluoranthene**	**65**	**84**
50-32-8	**Benzo(a)pyrene**	**65**	**80**
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.8%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	67.2%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	58.9%	2-Fluorophenol	53.1%
2,4,6-Tribromophenol	64.3%	d4-2-Chlorophenol	60.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/11/05 23:26
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.86 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.7%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Date Analyzed: 03/11/05 23:26

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	52.8%	2-Fluorobiphenyl	56.8%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	53.9%	2-Fluorophenol	51.5%
2,4,6-Tribromophenol	58.4%	d4-2-Chlorophenol	54.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
MATRIX SPIKE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/14/05 17:29
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.7%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	---
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	---
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	---
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	---
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	---
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	---
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	---
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	---
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
MATRIX SPIKE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Date Analyzed: 03/14/05 17:29

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	---
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	---
85-01-8	Phenanthrene	64	---
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	---
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	---
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	---
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.0%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	60.8%
d5-Phenol	61.6%	2-Fluorophenol	56.8%
2,4,6-Tribromophenol	67.5%	d4-2-Chlorophenol	64.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
MATRIX SPIKE DUPLICATE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/14/05 18:02
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.7%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	---
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	---
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	---
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	---
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	---
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	---
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	---
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	---
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
MATRIX SPIKE DUPLICATE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Date Analyzed: 03/14/05 18:02

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	---
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	---
85-01-8	Phenanthrene	64	---
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	---
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	---
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	---
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.8%	2-Fluorobiphenyl	45.6%
d14-p-Terphenyl	56.8%	d4-1,2-Dichlorobenzene	48.4%
d5-Phenol	43.7%	2-Fluorophenol	42.1%
2,4,6-Tribromophenol	51.7%	d4-2-Chlorophenol	49.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
MS/MSD

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted MS/MSD: 03/04/05

Date Analyzed MS: 03/14/05 17:29
MSD: 03/14/05 18:02
Instrument/Analyst MS: NT4/LJR
MSD: NT4/LJR
GPC Cleanup: NO

Sample Amount MS: 7.85 g-dry-wt
MSD: 7.85 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 7.7%
pH: 6.8

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 63.6	1490	2390	62.3%	1050	2390	43.9%	34.6%
2-Chlorophenol	< 63.6	1530	2390	64.0%	1160	2390	48.5%	27.5%
1,4-Dichlorobenzene	< 63.6	917	1590	57.7%	717	1590	45.1%	24.5%
N-Nitroso-Di-N-Propylamine	< 318	1080	1590	67.9%	790	1590	49.7%	31.0%
1,2,4-Trichlorobenzene	< 63.6	941	1590	59.2%	745	1590	46.9%	23.3%
4-Chloro-3-methylphenol	< 318	1540	2390	64.4%	1230	2390	51.5%	22.4%
Acenaphthene	< 63.6	1070	1590	67.3%	809	1590	50.9%	27.8%
4-Nitrophenol	< 318	1880	2390	78.7%	1330	2390	55.6%	34.3%
2,4-Dinitrotoluene	< 318	1030	1590	64.8%	771	1590	48.5%	28.8%
Pentachlorophenol	< 318	1620	2390	67.8%	1200	2390	50.2%	29.8%
Phenanthrene	< 63.6	144	191	75.4%	117	191	61.3%	20.7%
Pyrene	< 63 6	1110	1590	69.8%	889	1590	55.9%	22.1%
Chrysene	< 63.6	159	191	83.2%	122	191	63.9%	26.3%
Benzo(k)fluoranthene	< 63.6	138	191	72.3%	101	191	52.9%	31.0%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-030405
LCS/LCSD

Lab Sample ID: LCS-030405
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted LCS/LCSD: 03/04/05

Date Analyzed LCS: 03/11/05 21:10
LCSD: 03/11/05 21:44
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1340	2500	53.6%	1460	2500	58.4%	8.6%
2-Chlorophenol	1380	2500	55.2%	1490	2500	59.6%	7.7%
1,4-Dichlorobenzene	864	1670	51.7%	964	1670	57.7%	10.9%
N-Nitroso-Di-N-Propylamine	909	1670	54.4%	1020	1670	61.1%	11.5%
1,2,4-Trichlorobenzene	875	1670	52.4%	968	1670	58.0%	10.1%
4-Chloro-3-methylphenol	1520	2500	60.8%	1670	2500	66.8%	9.4%
Acenaphthene	932	1670	55.8%	1020	1670	61.1%	9.0%
4-Nitrophenol	1350	2500	54.0%	1340	2500	53.6%	0.7%
2,4-Dinitrotoluene	1000	1670	59.9%	1090	1670	65.3%	8.6%
Pentachlorophenol	1540	2500	61.6%	1630	2500	65.2%	5.7%
Phenanthrene	134	200	67.0%	149	200	74.5%	10.6%
Pyrene	1060	1670	63.5%	1100	1670	65.9%	3.7%
Chrysene	147	200	73.5%	159	200	79.5%	7.8%
Benzo(k)fluoranthene	141	200	70.5%	147	200	73.5%	4.2%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	52.4%	61.2%
2-Fluorobiphenyl	55.2%	62.8%
d14-p-Terphenyl	66.0%	70.8%
d4-1,2-Dichlorobenzene	54.0%	62.8%
d5-Phenol	53.6%	61.9%
2-Fluorophenol	50.7%	53.6%
2,4,6-Tribromophenol	58.9%	64.8%
d4-2-Chlorophenol	54.9%	62.9%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	MNP	DBA	TOT OUT
MB-030405	56.7%	87.3%	0
LCS-030405	58.7%	84.7%	0
LCSD-030405	67.7%	87.3%	0
SY-PL2-603A-1.5	63.3%	78.7%	0
SY-PL2-603A-5	59.0%	74.0%	0
SY-PL2-603A-10	56.0%	65.3%	0
SY-PL2-603A-10 MS	65.3%	74.0%	0
SY-PL2-603A-10 MSD	49.0%	59.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(37-101)	(27-106)
(DBA) = d14-Dibenzo(a,h)anthracene	(30-126)	(10-123)

Prep Method: SW3550B
Log Number Range: 05-3839 to 05-3841

000034

FORM-II SIM SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: MB-030405
METHOD BLANK

Lab Sample ID: MB-030405
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 13:31
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.7	< 6.7 U
91-57-6	2-Methylnaphthalene	6.7	< 6.7 U
208-96-8	Acenaphthylene	6.7	< 6.7 U
83-32-9	Acenaphthene	6.7	< 6.7 U
86-73-7	Fluorene	6.7	< 6.7 U
85-01-8	Phenanthrene	6.7	< 6.7 U
120-12-7	Anthracene	6.7	< 6.7 U
206-44-0	Fluoranthene	6.7	< 6.7 U
129-00-0	Pyrene	6.7	< 6.7 U
56-55-3	Benzo(a)anthracene	6.7	< 6.7 U
218-01-9	Chrysene	6.7	< 6.7 U
205-99-2	Benzo(b)fluoranthene	6.7	< 6.7 U
207-08-9	Benzo(k)fluoranthene	6.7	< 6.7 U
50-32-8	Benzo(a)pyrene	6.7	< 6.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	< 6.7 U
53-70-3	Dibenz(a,h)anthracene	6.7	< 6.7 U
191-24-2	Benzo(g,h,i)perylene	6.7	< 6.7 U
132-64-9	Dibenzofuran	6.7	< 6.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	56.7%
d14-Dibenzo(a,h)anthracene	87.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 14:49
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 12.4 %
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	**Phenanthrene**	**6.3**	**14**
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	**Fluoranthene**	**6.3**	**21**
129-00-0	**Pyrene**	**6.3**	**20**
56-55-3	**Benzo(a)anthracene**	**6.3**	**6.3**
218-01-9	**Chrysene**	**6.3**	**9.5**
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	63.3%
d14-Dibenzo(a,h)anthracene	78.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 15:15
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.66 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 4.7 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**6.5**	**14**
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**59**
120-12-7	**Anthracene**	**6.5**	**40**
206-44-0	**Fluoranthene**	**6.5**	**150**
129-00-0	**Pyrene**	**6.5**	**140**
56-55-3	**Benzo(a)anthracene**	**6.5**	**72**
218-01-9	**Chrysene**	**6.5**	**82**
205-99-2	**Benzo(b)fluoranthene**	**6.5**	**65**
207-08-9	**Benzo(k)fluoranthene**	**6.5**	**56**
50-32-8	**Benzo(a)pyrene**	**6.5**	**72**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**6.5**	**45**
53-70-3	**Dibenz(a,h)anthracene**	**6.5**	**12 M**
191-24-2	**Benzo(g,h,i)perylene**	**6.5**	**50**
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracene	74.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 15:41
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.86 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.7 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**6.4**	**29**
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	56.0%
d14-Dibenzo(a,h)anthracene	65.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-PL2-603A-10
MATRIX SPIKE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 16:07
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.7 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**6.4**	**47**
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	---
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	---
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	---
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	---
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	---
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.3%
d14-Dibenzo(a,h)anthracene	74.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-PL2-603A-10
MATRIX SPIKE DUP

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 16:33
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.7 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**6.4**	**36**
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	---
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	---
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	---
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	---
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	---
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	49.0%
d14-Dibenzo(a,h)anthracene	59.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-PL2-603A-10
MS/MSD

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted MS/MSD: 03/04/05

Date Analyzed MS: 03/07/05 16:07
MSD: 03/07/05 16:33
Instrument/Analyst MS: NT1/YZ
MSD: NT1/YZ
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount MS: 7.85 g-dry-wt
MSD: 7.85 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
pH: 6.8
Moisture: 7.7%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Acenaphthene	< 6.4	1080	1590	67.8%	798	1590	50.1%	30.0%
Phenanthrene	< 6.4	143	191	74.9%	111	191	58.1%	25.2%
Pyrene	< 6.4	1110	1590	69.7%	808	1590	50.7%	31.5%
Chrysene	< 6.4	148	191	77.5%	113	191	59.2%	26.8%
Benzo(k)fluoranthene	< 6.4	136	191	71.2%	101	191	52.9%	29.5%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-030405
LCS/LCSD

Lab Sample ID: LCS-030405
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted LCS/LCSD: 03/04/05

Date Analyzed LCS: 03/07/05 13:57
LCSD: 03/07/05 14:23
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 g
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
pH: NA
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acenaphthene	932	1670	55.8%	1050	1670	62.9%	11.9%
Phenanthrene	126	200	63.0%	147	200	73.5%	15.4%
Pyrene	991	1670	59.3%	1240	1670	74.3%	22.3%
Chrysene	135	200	67.5%	164	200	82.0%	19.4%
Benzo(k)fluoranthene	123	200	61.5%	156	200	78.0%	23.7%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	58.7%	67.7%
d14-Dibenzo(a,h)anthracene	84.7%	87.3%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCBP	TCMX	TOT OUT
MB-030405	113%	98.0%	0
LCS-030405	113%	96.2%	0
SY-PL2-603A-1.5	116%	88.8%	0
SY-PL2-603A-5	130%	101%	0
SY-PL2-603A-10	131%	97.0%	0
SY-PL2-603A-10 MS	131%	106%	0
SY-PL2-603A-10 MSD	121%	102%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-3839 to 05-3841

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-030405
METHOD BLANK

Lab Sample ID: MB-030405
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 16:08
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	98.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 16:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.7
Percent Moisture: 12.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	38	< 38 U
53469-21-9	Aroclor 1242	38	< 38 U
12672-29-6	Aroclor 1248	38	< 38 U
11097-69-1	Aroclor 1254	38	< 38 U
11096-82-5	Aroclor 1260	38	< 38 U
11104-28-2	Aroclor 1221	38	< 38 U
11141-16-5	Aroclor 1232	38	< 38 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	116%
Tetrachlorometaxylene	88.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 17:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 11.5 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	35	< 35 U
53469-21-9	Aroclor 1242	35	< 35 U
12672-29-6	Aroclor 1248	35	< 35 U
11097-69-1	Aroclor 1254	35	< 35 U
11096-82-5	Aroclor 1260	35	< 35 U
11104-28-2	Aroclor 1221	35	< 35 U
11141-16-5	Aroclor 1232	35	< 35 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	130%
Tetrachlorometaxylene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 17:29
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	36	< 36 U
53469-21-9	Aroclor 1242	36	< 36 U
12672-29-6	Aroclor 1248	36	< 36 U
11097-69-1	Aroclor 1254	36	< 36 U
11096-82-5	Aroclor 1260	36	< 36 U
11104-28-2	Aroclor 1221	36	< 36 U
11141-16-5	Aroclor 1232	36	< 36 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	131%
Tetrachlorometaxylene	97.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-603A-10
MATRIX SPIKE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 17:50
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	36	---
53469-21-9	Aroclor 1242	36	< 36 U
12672-29-6	Aroclor 1248	36	< 36 U
11097-69-1	Aroclor 1254	36	< 36 U
11096-82-5	Aroclor 1260	36	---
11104-28-2	Aroclor 1221	36	< 36 U
11141-16-5	Aroclor 1232	36	< 36 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	131%
Tetrachlorometaxylene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-603A-10
MATRIX SPIKE DUP

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 18:10
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	36	---
53469-21-9	Aroclor 1242	36	< 36 U
12672-29-6	Aroclor 1248	36	< 36 U
11097-69-1	Aroclor 1254	36	< 36 U
11096-82-5	Aroclor 1260	36	---
11104-28-2	Aroclor 1221	36	< 36 U
11141-16-5	Aroclor 1232	36	< 36 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	121%
Tetrachlorometaxylene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082

Sample ID: SY-PL2-603A-10
MS/MSD

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted MS/MSD: 03/04/05

Date Analyzed MS: 03/08/05 17:50
MSD: 03/08/05 18:10
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount MS: 11.1 g-dry-wt
MSD: 11.1 g-dry-wt
Final Extract Volume MS: 4.0 mL
MSD: 4.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 7.7%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 36.1 U	157	181	86.7%	157	180	87.2%	0.0%
Aroclor 1260	< 36.1 U	195	181	108%	186	180	103%	4.7%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082

Sample ID: LCS-030405
LAB CONTROL

Lab Sample ID: LCS-030405
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 16:29
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	147	167	88.0%
Aroclor 1260	179	167	107%

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	96.2%

Results reported in µg/kg (ppb)

FORM III

ANALYTICAL RESOURCES INCORPORATED

SOIL TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Soil

QC Report No: HT96

LIMS ID	Lab ID	Client ID	TFT	BB	TOT OUT
05-3839MB	030405MBS	Method Blank	104%	92%	0
05-3839LC	030405LCS	Lab Control	103%	93%	0
05-3839LCD	030405LCDS	LCDuplicate	103%	95%	0
05-3839	HT96A	SY-PL2-603A-1.5	107%	107%	0
05-3839	HT96A-MS	SY-PL2-603A-1.5	109%	100%	0
05-3839	HT96A-MSD	SY-PL2-603A-1.5	110%	108%	0
05-3840	HT96B	SY-PL2-603A-5	112%	104%	0
05-3841	HT96C	SY-PL2-603A-10	106%	99%	0

	MB/LCS QC LIMITS	SAMPLE QC LIMITS
(TFT) = Trifluorotoluene	(80-128)	(55-165)
(BB) = Bromobenzene	(80-123)	(48-169)

Limits Updated - 01/18/05

\# Column to be used to flag recovery values

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Data Release Authorized:
Reported: 03/09/05

ARI ID	Client ID	Analysis Date	Basis	Range	Result mg/kg
MB-030405	Method Blank	03/04/05	---	Gasoline	< 5.0 U
05-3839		PID2		HC ID	---
				Trifluorotoluene	104%
				Bromobenzene	92.0%
HT96A	SY-PL2-603A-1.5	03/04/05	Dry	Gasoline	< 6.7 U
05-3839		PID2		HC ID	---
				Trifluorotoluene	107%
				Bromobenzene	107%
HT96B	SY-PL2-603A-5	03/04/05	Dry	Gasoline	< 6.4 U
05-3840		PID2		HC ID	---
				Trifluorotoluene	112%
				Bromobenzene	104%
HT96C	SY-PL2-603A-10	03/04/05	Dry	Gasoline	< 6.7 U
05-3841		PID2		HC ID	---
				Trifluorotoluene	106%
				Bromobenzene	99.4%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene
Page 1 of 1

Sample ID: SY-PL2-603A-1.5
MS/MSD

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Instrument/Analyst MS: PID2/PKC
MSD: PID2/PKC
Date Analyzed MS: 03/04/05 16:10
MSD: 03/04/05 16:37

Sample Amount MS: 0.075 g-dry-wt
MSD: 0.075 g-dry-wt
Moisture: 11.0%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons	< 6.7 U	147	167	88.0%	152	166	91.6%	3.3%

Results reported in mg/kg (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	MS	MSD
Trifluorotoluene	109%	110%
Bromobenzene	100%	108%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene

Sample ID: LCS-030405
LCS/LCSD

Lab Sample ID: LCS-030405
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC
Date Analyzed LCS: 03/04/05 11:36
LCSD: 03/04/05 12:03

Sample Amount LCS: 0.10 g
LCSD: 0.10 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	120	125	96.0%	125	125	100%	4.1%

Results reported in mg/kg (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	103%	103%
Bromobenzene	93.1%	94.7%

ANALYTICAL RESOURCES INCORPORATED

WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: HT96

LIMS ID	Lab ID	Client ID	TFT	BB	TOT OUT
05-3842MB	030305MB	Method Blank	100%	99.2%	0
05-3842LC	030305LC	Lab Control	102%	94.7%	0
05-3842LCD	030305LCD	Lab Control Dup	102%	97.7%	0
05-3842	HT96D	SY-PL2-603A-10EB	108%	99.3%	0
05-3843	HT96E	TRIP BLANK	102%	102%	0

	MB/LCS QC LIMITS	SAMPLE QC LIMITS
(TFT) = Trifluorotoluene	(79-124)	(53-133)
(BB) = Bromobenzene	(78-119)	(56-132)

Limits Updated - 01/18/05

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Data Release Authorized:
Reported: 03/09/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-030305	Method Blank	03/03/05		Gasoline	< 0.25 U
05-3842		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	99.2%
HT96D	SY-PL2-603A-10EB	03/03/05		Gasoline	< 0.25 U
05-3842		PID2		HC ID	---
				Trifluorotoluene	108%
				Bromobenzene	99.3%
HT96E	TRIP BLANK	03/03/05		Gasoline	< 0.25 U
05-3843		PID2		HC ID	---
				Trifluorotoluene	102%
				Bromobenzene	102%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene

Sample ID: LCS-030305
LCS/LCSD

Lab Sample ID: LCS-030305
LIMS ID: 05-3842
Matrix: Water
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC
Date Analyzed LCS: 03/03/05 14:00
LCSD: 03/03/05 14:28

Sample Amount LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	2.54	2.50	102%	2.53	2.50	101%	0.4%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	102%	102%
Bromobenzene	94.7%	97.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	OTER	TOT OUT
030305MBS	89.1%	0
030305LCS	70.4%	0
030305LCSD	71.8%	0
SY-PL2-603A-1.5	74.2%	0
SY-PL2-603A-5	73.6%	0
SY-PL2-603A-10	72.9%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(39-134)	(26-128)

Prep Method: SW3545
Log Number Range: 05-3839 to 05-3841

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Received: 02/28/05

Data Release Authorized:
Reported: 03/15/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-030305	Method Blank	03/03/05	03/05/05	1.0	Diesel	< 5.0 U
05-3839	HC ID: ---		FID3B		Motor Oil	< 5.0 U
					o-Terphenyl	89.1%
HT96A	SY-PL2-603A-1.5	03/03/05	03/05/05	1.0	**Diesel**	**34**
05-3839	HC ID: **DRO/RRO**		FID3B		**Motor Oil**	**82**
					o-Terphenyl	74.2%
HT96B	SY-PL2-603A-5	03/03/05	03/05/05	1.0	**Diesel**	**15**
05-3840	HC ID: **MOTOR OIL**		FID3B		**Motor Oil**	**78**
					o-Terphenyl	73.6%
HT96C	SY-PL2-603A-10	03/03/05	03/05/05	1.0	**Diesel**	**16**
05-3841	HC ID: **RRO**		FID3B		**Motor Oil**	**57**
					o-Terphenyl	72.9%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-030305
LCS/LCSD

Lab Sample ID: LCS-030305
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted LCS/LCSD: 03/03/05

Date Analyzed LCS: 03/05/05 04:27
LCSD: 03/05/05 04:44
Instrument/Analyst LCS: FID/JGR
LCSD: FID/JGR

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	128	150	85.3%	100	150	66.7%	24.6%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	70.4%	71.8%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Soil
Date Received: 02/28/05

ARI Job: HT96
Project: P2DG-South Yard Area
013-1646-002.200

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
05-3839-030305MB1	Method Blank	10.0 g	1.00 mL	-	03/03/05
05-3839-030305LCS1	Lab Control	10.0 g	1.00 mL	-	03/03/05
05-3839-030305LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	03/03/05
05-3839-HT96A	SY-PL2-603A-1.5	8.78 g	1.00 mL	D	03/03/05
05-3840-HT96B	SY-PL2-603A-5	9.57 g	1.00 mL	D	03/03/05
05-3841-HT96C	SY-PL2-603A-10	9.28 g	1.00 mL	D	03/03/05

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	OTER	TOT OUT
MB-030405	83.1%	0
LCS-030405	75.3%	0
LCSD-030405	70.2%	0
SY-PL2-603A-10EB	81.1%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(54-131)	(46-123)

Prep Method: SW3510C
Log Number Range: 05-3842 to 05-3842

000063

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Received: 02/28/05

Data Release Authorized:
Reported: 03/14/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-030405	Method Blank	03/04/05	03/11/05	1.0	Diesel	< 0.25 U
05-3842			FID3B		Motor Oil	< 0.25 U
					HC ID	---
					o-Terphenyl	83.1%
HT96D	SY-PL2-603A-10EB	03/04/05	03/11/05	1.0	Diesel	< 0.25 U
05-3842			FID3B		Motor Oil	< 0.25 U
					HC ID	---
					o-Terphenyl	81.1%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID

Sample ID: LCS-030405
LCS/LCSD

Lab Sample ID: LCS-030405
LIMS ID: 05-3842
Matrix: Water
Data Release Authorized:
Reported: 03/14/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted LCS/LCSD: 03/04/05

Date Analyzed LCS: 03/11/05 22:59
LCSD: 03/11/05 23:16
Instrument/Analyst LCS: FID/JGR
LCSD: FID/JGR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.17	3.00	72.3%	2.14	3.00	71.3%	1.4%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	75.3%	70.2%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 02/28/05

ARI Job: HT96
Project: P2DG-South Yard Area
013-1646-002.200

ARI ID	Client ID	Client Amt	Final Vol	Prep Date
05-3842-030405MB1	Method Blank	500 mL	1.00 mL	03/04/05
05-3842-030405LCS1	Lab Control	500 mL	1.00 mL	03/04/05
05-3842-030405LCSD1	Lab Control Dup	500 mL	1.00 mL	03/04/05
05-3842-HT96D	SY-PL2-603A-10EB	500 mL	1.00 mL	03/04/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Percent Total Solids: 93.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/05	6010B	03/04/05	7429-90-5	Aluminum	5	14,400	
3050B	03/03/05	6010B	03/04/05	7440-36-0	Antimony	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-38-2	Arsenic	5	7	
3050B	03/03/05	6010B	03/04/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/03/05	6010B	03/04/05	7440-43-9	Cadmium	0.2	0.2	
3050B	03/03/05	6010B	03/04/05	7440-47-3	Chromium	0.5	21.6	
3050B	03/03/05	6010B	03/04/05	7440-50-8	Copper	0.2	30.0	
3050B	03/03/05	6010B	03/04/05	7439-92-1	Lead	2	9	
3050B	03/03/05	6010B	03/04/05	7439-95-4	Magnesium	5	4,610	
3050B	03/03/05	6010B	03/04/05	7439-96-5	Manganese	0.1	230	
CLP	03/03/05	7471A	03/07/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/03/05	6010B	03/04/05	7440-02-0	Nickel	1	17	
3050B	03/03/05	6010B	03/04/05	7782-49-2	Selenium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-28-0	Thallium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-62-2	Vanadium	0.3	55.1	
3050B	03/03/05	6010B	03/04/05	7440-66-6	Zinc	0.6	48.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Percent Total Solids: 93.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/05	6010B	03/04/05	7429-90-5	Aluminum	5	10,600	
3050B	03/03/05	6010B	03/04/05	7440-36-0	Antimony	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-38-2	Arsenic	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/03/05	6010B	03/04/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/03/05	6010B	03/04/05	7440-47-3	Chromium	0.5	20.2	
3050B	03/03/05	6010B	03/04/05	7440-50-8	Copper	0.2	13.6	
3050B	03/03/05	6010B	03/04/05	7439-92-1	Lead	2	4	
3050B	03/03/05	6010B	03/04/05	7439-95-4	Magnesium	5	5,120	
3050B	03/03/05	6010B	03/04/05	7439-96-5	Manganese	0.1	244	
CLP	03/03/05	7471A	03/07/05	7439-97-6	Mercury	0.04	0.05	
3050B	03/03/05	6010B	03/04/05	7440-02-0	Nickel	1	23	
3050B	03/03/05	6010B	03/04/05	7782-49-2	Selenium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-28-0	Thallium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-62-2	Vanadium	0.3	38.1	
3050B	03/03/05	6010B	03/04/05	7440-66-6	Zinc	0.6	29.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Percent Total Solids: 93.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/05	6010B	03/04/05	**7429-90-5**	**Aluminum**	5	**12,800**	
3050B	03/03/05	6010B	03/04/05	7440-36-0	Antimony	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-38-2	Arsenic	5	5	U
3050B	03/03/05	6010B	03/04/05	**7440-41-7**	**Beryllium**	0.1	**0.2**	
3050B	03/03/05	6010B	03/04/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/03/05	6010B	03/04/05	**7440-47-3**	**Chromium**	0.5	**25.9**	
3050B	03/03/05	6010B	03/04/05	**7440-50-8**	**Copper**	0.2	**14.7**	
3050B	03/03/05	6010B	03/04/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/03/05	6010B	03/04/05	**7439-95-4**	**Magnesium**	5	**6,410**	
3050B	03/03/05	6010B	03/04/05	**7439-96-5**	**Manganese**	0.1	**259**	
CLP	03/03/05	7471A	03/07/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/03/05	6010B	03/04/05	**7440-02-0**	**Nickel**	1	**30**	
3050B	03/03/05	6010B	03/04/05	7782-49-2	Selenium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-28-0	Thallium	5	5	U
3050B	03/03/05	6010B	03/04/05	**7440-62-2**	**Vanadium**	0.3	**41.7**	
3050B	03/03/05	6010B	03/04/05	**7440-66-6**	**Zinc**	0.6	**29.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-10
DUPLICATE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Aluminum	6010B	12,800	10,600	18.8%	+/- 20%	
Antimony	6010B	5 U	5 U	0.0%	+/- 5	L
Arsenic	6010B	5 U	5 U	0.0%	+/- 5	L
Beryllium	6010B	0.2	0.1	66.7%	+/- 0.1	L
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	6010B	25.9	19.5	28.2%	+/- 20%	*
Copper	6010B	14.7	12.6	15.4%	+/- 20%	
Lead	6010B	3	3	0.0%	+/- 2	L
Magnesium	6010B	6,410	4,810	28.5%	+/- 20%	*
Manganese	6010B	259	253	2.3%	+/- 20%	
Mercury	7471A	0.04 U	0.04 U	0.0%	+/- 0.04	L
Nickel	6010B	30	22	30.8%	+/- 20%	*
Selenium	6010B	5 U	5 U	0.0%	+/- 5	L
Silver	6010B	0.3 U	0.3 U	0.0%	+/- 0.3	L
Thallium	6010B	5 U	5 U	0.0%	+/- 5	L
Vanadium	6010B	41.7	36.7	12.8%	+/- 20%	
Zinc	6010B	29.4	26.7	9.6%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-10
MATRIX SPIKE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Aluminum	6010B	12,800	11,100	202	-842%	H
Antimony	6010B	5 U	74	202	36.6%	N
Arsenic	6010B	5 U	211	202	104%	
Beryllium	6010B	0.2	51.5	50.5	102%	
Cadmium	6010B	0.2 U	52.6	50.5	104%	
Chromium	6010B	25.9	73.2	50.5	93.7%	
Copper	6010B	14.7	69.9	50.5	109%	
Lead	6010B	3	200	202	97.5%	
Magnesium	6010B	6,410	6,090	1,010	-31.7%	H
Manganese	6010B	259	298	50.5	77.2%	H
Mercury	7471A	0.04 U	0.42	0.379	111%	
Nickel	6010B	30	73	50.5	85.1%	
Selenium	6010B	5 U	207	202	102%	
Silver	6010B	0.3 U	52.2	50.5	103%	
Thallium	6010B	5 U	199	202	98.5%	
Vanadium	6010B	41.7	95.1	50.5	106%	
Zinc	6010B	29.4	79.8	50.5	99.8%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HT96MB
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/05	6010B	03/04/05	7429-90-5	Aluminum	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-36-0	Antimony	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-38-2	Arsenic	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/03/05	6010B	03/04/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/03/05	6010B	03/04/05	7440-47-3	Chromium	0.5	0.5	U
3050B	03/03/05	6010B	03/04/05	7440-50-8	Copper	0.2	0.2	U
3050B	03/03/05	6010B	03/04/05	7439-92-1	Lead	2	2	U
3050B	03/03/05	6010B	03/04/05	7439-95-4	Magnesium	5	5	U
3050B	03/03/05	6010B	03/04/05	7439-96-5	Manganese	0.1	0.1	U
CLP	03/03/05	7471A	03/07/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/03/05	6010B	03/04/05	7440-02-0	Nickel	1	1	U
3050B	03/03/05	6010B	03/04/05	7782-49-2	Selenium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-28-0	Thallium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-62-2	Vanadium	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HT96LCS
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Aluminum	6010B	208	200	104%	
Antimony	6010B	210	200	105%	
Arsenic	6010B	208	200	104%	
Beryllium	6010B	49.9	50.0	99.8%	
Cadmium	6010B	51.9	50.0	104%	
Chromium	6010B	49.4	50.0	98.8%	
Copper	6010B	50.8	50.0	102%	
Lead	6010B	201	200	100%	
Magnesium	6010B	1040	1000	104%	
Manganese	6010B	48.9	50.0	97.8%	
Mercury	7471A	1.05	1.00	105%	
Nickel	6010B	48	50	96.0%	
Selenium	6010B	209	200	104%	
Silver	6010B	50.6	50.0	101%	
Thallium	6010B	206	200	103%	
Vanadium	6010B	52.7	50.0	105%	
Zinc	6010B	48.2	50.0	96.4%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

Total Solids

Volatile Total Solids Worklist No: 2857
voats.wlf printed: 3/ 8/05

Data Analyst: Jean Alexander Analyzed by: JA
Date Entered: 3/ 8/05 Date Analyzed: 3/ 7/05
Comments:

Sample No	Client ID/Client	Tare	Wet Wt	Dry Wt	%Solids
05-3839	HT96 A SY-PL2-603A-1.5	1.34	8.16	7.50	90.32
05-3840	HT96 B SY-PL2-603A-5	1.39	9.81	9.35	94.54
05-3841	HT96 C SY-PL2-603A-10	1.34	9.68	8.87	90.29

BETX Total Solids
betxts.wlf printed: 3/ 9/05

Worklist No: 3566

Data Analyst: Paul K. Campbell
Date Entered: 3/ 9/05
Comments:

Analyzed by: PKC
Date Analyzed: 3/ 5/05

Sample No	Client ID/Client	Tare	Wet Wt	Dry Wt	%Solids
05-3839	HT96A SY-PL2-603A-1.5	1.35	13.67	12.32	89.0
05-3840	HT96B SY-PL2-603A-5	1.31	11.40	10.42	90.3
05-3841	HT96C SY-PL2-603A-10	1.31	11.42	10.26	88.5

* - BETX TS Copied from VOA TS

Worklist No: 1150

Total Solids
extts.wlf: 3/ 3/05

Data Analyst: Sean M. Laperle
Analyzed by: RAR
Date Entered: 3/ 2/05
Date Analyzed: 3/ 3/05
Comments:

** Use appropriate worklist to enter SRM Total Solids (see your SOPs) **

Sample	Client ID/Client	Tare	Wet Wt	Final Wt	%Solids	pH
1.	HT96A 05-3839 SY-PL2-603A-1.5	0.81	12.79	11.31	87.6	6.7
2.	HT96B 05-3840 SY-PL2-603A-5	0.81	14.19	13.56	95.3	6.8
3.	HT96C 05-3841 SY-PL2-603A-10	0.81	12.86	11.93	92.3	6.8

Analyst/Date:_____

Data Entered/Distributed By: 3/3/05 RR

Solids Data Entry Report Checked by: LM Date: 3/03/05
Date: 03/03/05 Data Analyst: DM

Solids Determination performed on 03/02/05 by LM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
HT96	A	SY-PL2-603A-1.5	0.976	10.464	9.796	92.96
HT96	B	SY-PL2-603A-5	0.973	10.697	10.105	93.91
HT96	C	SY-PL2-603A-10	0.972	10.105	9.522	93.62

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 18, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (013-1646-002.200)
ARI Job No: HU16

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted six soil samples and two water samples and a trip blank in good condition on March 1, 2005. The samples were received at a cooler temperature of 3.0°C.

As requested, the samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, and total priority pollutant metals.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU16

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: H416	Turn-around Requested:
ARI Client Company: Golder Associates	Phone: 425-883-0777
Client Contact: Ted Norton	
Client Project Name: P2DG - South Yard Area	
Client Project #: 013-1646-002.200	Samplers: C. King

Page: 1 of 1

Date: 3/1/05 | Ice Present? Yes

No. of Coolers: | Cooler Temps: 3°C

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	VOCs (8260B)	SVOCs (8270C)	PCBs (8082)	Priority Pollutant metals/3 500/200.8/3 500/6010/7000 series					Notes/Comments
SY-P2-602A-1.5	3/1/05	12:12	Soil	2	X	X	X	X					Sampling Interval @ 1.5'
SY-P2-602A-5	3/1/05	12:17	Soil	4	X	X	X	X					Sampling interval 3.5-5 feet for SVOC 1 MS + 1 MSD included PCB metals
SY-P2-602A-10	3/1/05	12:19	Soil	2	X	X	X	X					Sampling Interval 8.5-10'
SY-P2-602A-10EB	3/1/05	12:25	Water	5	[illegible]	X	X	X					SVOC, PCB, metals Equipment Blanks
SY-P2-601A-1.5	3/1/05	2:27	Soil	2	X	[illegible]	X	X					Sampling Interval @ 1.5
SY-P2-601A-5	3/1/05	2:32	Soil	4	X	[illegible]	X	X					Sampling Interval 3.5-5 1 MS + 1 MSD included for VOCs
SY-P2-601A-10	3/1/05	2:35	Soil	2	X	[illegible]	X	X					
SY-P2-601A-10EB	3/1/05	2:40	Water	3	X								VOCs - equipment blanks

000002

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Dist. to Dan M.	Printed Name: Chris King	Printed Name: S Dunnihoo	Printed Name:	Printed Name:
	Company: Golder Associates	Company: ARI	Company:	Company:
	Date & Time: 3/1/05 10:00	Date & Time: 03/01/05 16:00	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU16

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HU16
March 18, 2005

Volatile Organics by Method 8260B:

The soil samples were analyzed on 3/14/05 within the method recommended holding time. The water samples were received preserved with pH <2. The waters were analyzed on 3/7/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-P2-601A-5**. All percent recoveries and RPDs for the analytes of interest were within compliance. The percent recoveries for Vinyl acetate were outside the advisory 50% - 150% limits. The MS ethylbenzene percent recovery was above the 135% limit. As the MSD was compliant, and the RPD was in control, no corrective action was taken.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The soil samples were screened prior to extraction on 3/8/05. The samples were analyzed on 3/14/05 and 3/11/05 within the method recommended holding time.

The water sample was extracted on 3/7/05 and analyzed on 3/11/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-P2-602A-5**. All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): Currently ARI is spiking the full list LCS spike solution into water samples extracted by Liquid-Liquid. The advisory limits for the non-regulated analytes are 30% - 160%. All percent recoveries and RPDs for the eleven analytes of interest and non-regulated analytes were within compliance.

SIM PNA by Method 8270C-SIM:

The soil samples were screened prior to extraction on 3/8/05. The samples were analyzed on 3/09/05 within the method recommended holding time.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HU16
March 18, 2005

The water sample was extracted on 3/7/05 and analyzed on 3/09/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-P2-602A-5**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs were within compliance.

PCB by Method 8082

The soil samples were screened prior to extraction on 3/8/05. The samples were analyzed on 3/11/05 within the method recommended holding time.

The water sample was extracted on 3/4/05 and analyzed on 3/08/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **SY-P2-602A-5**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs were within compliance.

Total Metals by Methods 6010 and 7471

The samples were prepared on 3/07/05 and were analyzed between 3/07/05 3/10/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of the element contamination.

Samples: No anomalies were encountered for these samples.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HU16
March 18, 2005

Matrix Spike: The matrix spike and matrix duplicate were analyzed in association with sample **SY-P2-602A-5**. The percent recovery for antimony was low following the initial analysis of the MS. The percent recovery for antimony was recovered within the established advisory range for the corresponding LCS. Since it is expected and documented that antimony is not recovered adequately in the sediment or solid matrix using prep method 3050B, no corrective actions were taken based on the antimony recovery in the MS. If antimony is a metal of particular concern, an alternative and stronger preparation would be recommended for this element only.

Matrix Spike continued: The aluminum percent recovery was high in the MS due to the large amount of aluminum present in the native sample in relation to the amount of spike added. No corrective action was taken.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU16

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8260 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCE	TOL	BFB	DCB	TOT OUT
SY-P2-602A-1.5	81.1%	97.9%	93.7%	90.7%	0
SY-P2-602A-5	75.1%	96.1%	87.5%	92.8%	0
SY-P2-602A-10	79.7%	98.5%	84.4%	90.8%	0
SY-P2-601A-1.5	75.3%	97.5%	90.6%	92.3%	0
MB-031405	75.1%	94.5%	89.7%	90.6%	0
LCS-031405	77.3%	97.1%	93.6%	89.1%	0
LCSD-031405	78.3%	96.5%	94.2%	91.0%	0
SY-P2-601A-5	75.5%	96.2%	94.9%	90.0%	0
SY-P2-601A-5 MS	93.0%	101%	102%	91.7%	0
SY-P2-601A-5 MSD	88.1%	99.7%	97.9%	93.2%	0
SY-P2-601A-10	84.3%	97.7%	92.5%	91.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(74-128)	(71-143)
(TOL) = d8-Toluene	(76-119)	(79-118)
(BFB) = Bromofluorobenzene	(78-116)	(69-126)
(DCB) = d4-1,2-Dichlorobenzene	(78-122)	(79-119)

Prep Method: SW5030
Analytical Method: SW8260B
Log Number Range: 05-3971 to 05-3977

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031405**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-031405
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 13:32

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.1%
d8-Toluene	94.5%
Bromofluorobenzene	89.7%
d4-1,2-Dichlorobenzene	90.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-602A-1.5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 14:26

Sample Amount: 4.94 g-dry-wt
Percent Moisture: 4.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.1	< 5.1 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.1	< 5.1 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.1	< 5.1 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**13**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.1	< 5.1 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.1	< 5.1 U
591-78-6	2-Hexanone	5.1	< 5.1 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	81.1%
d8-Toluene	97.9%
Bromofluorobenzene	93.7%
d4-1,2-Dichlorobenzene	90.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-602A-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 14:53

Sample Amount: 4.36 g-dry-wt
Percent Moisture: 16.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	Acetone	5.7	< 5.7 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	**cis-1,2-Dichloroethene**	**1.1**	**3.3**
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.7	< 5.7 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.7	< 5.7 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**130**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.7	< 5.7 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.7	< 5.7 U
591-78-6	2-Hexanone	5.7	< 5.7 U
127-18-4	**Tetrachloroethene**	**1.1**	**3.7**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.1%
d8-Toluene	96.1%
Bromofluorobenzene	87.5%
d4-1,2-Dichlorobenzene	92.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-602A-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 15:19

Sample Amount: 3.54 g-dry-wt
Percent Moisture: 29.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	**Vinyl Chloride**	**1.4**	**3.6**
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.8	< 2.8 U
67-64-1	**Acetone**	**7.1**	**160**
75-15-0	**Carbon Disulfide**	**1.4**	**5.0**
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	**trans-1,2-Dichloroethene**	**1.4**	**1.5**
156-59-2	**cis-1,2-Dichloroethene**	**1.4**	**21**
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**7.1**	**48**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	7.1	< 7.1 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	**Trichloroethene**	**1.4**	**3.4**
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	**Benzene**	**1.4**	**12**
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	7.1	< 7.1 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.1	< 7.1 U
591-78-6	2-Hexanone	7.1	< 7.1 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	**Toluene**	**1.4**	**8.5**
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.8	< 2.8 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	79.7%
d8-Toluene	98.5%
Bromofluorobenzene	84.4%
d4-1,2-Dichlorobenzene	90.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-1.5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16E
LIMS ID: 05-3975
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 15:46

Sample Amount: 5.01 g-dry-wt
Percent Moisture: 4.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**5.1**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**2.0**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.3%
d8-Toluene	97.5%
Bromofluorobenzene	90.6%
d4-1,2-Dichlorobenzene	92.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 16:15

Sample Amount: 4.96 g-dry-wt
Percent Moisture: 4.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**6.1**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**1.4**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.5%
d8-Toluene	96.2%
Bromofluorobenzene	94.9%
d4-1,2-Dichlorobenzene	90.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-5**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 16:38

Sample Amount: 5.12 g-dry-wt
Percent Moisture: 4.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	---
74-83-9	Bromomethane	1.0	---
75-01-4	Vinyl Chloride	1.0	---
75-00-3	Chloroethane	1.0	---
75-09-2	Methylene Chloride	2.0	---
67-64-1	Acetone	4.9	---
75-15-0	Carbon Disulfide	1.0	---
75-35-4	1,1-Dichloroethene	1.0	---
75-34-3	1,1-Dichloroethane	1.0	---
156-60-5	trans-1,2-Dichloroethene	1.0	---
156-59-2	cis-1,2-Dichloroethene	1.0	---
67-66-3	Chloroform	1.0	---
107-06-2	1,2-Dichloroethane	1.0	---
78-93-3	2-Butanone	4.9	---
71-55-6	1,1,1-Trichloroethane	1.0	---
56-23-5	Carbon Tetrachloride	1.0	---
108-05-4	Vinyl Acetate	4.9	---
75-27-4	Bromodichloromethane	1.0	---
78-87-5	1,2-Dichloropropane	1.0	---
10061-01-5	cis-1,3-Dichloropropene	1.0	---
79-01-6	Trichloroethene	1.0	---
124-48-1	Dibromochloromethane	1.0	---
79-00-5	1,1,2-Trichloroethane	1.0	---
71-43-2	Benzene	1.0	---
10061-02-6	trans-1,3-Dichloropropene	1.0	---
110-75-8	2-Chloroethylvinylether	4.9	---
75-25-2	Bromoform	1.0	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	---
591-78-6	2-Hexanone	4.9	---
127-18-4	Tetrachloroethene	1.0	---
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---
108-88-3	Toluene	1.0	---
108-90-7	Chlorobenzene	1.0	---
100-41-4	Ethylbenzene	1.0	---
100-42-5	Styrene	1.0	---
75-69-4	Trichlorofluoromethane	1.0	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	---
1330-20-7	m,p-Xylene	1.0	---
95-47-6	o-Xylene	1.0	---

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.0%
d8-Toluene	101%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	91.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-5**
 MATRIX SPIKE DUPLICATE

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 17:05

Sample Amount: 4.78 g-dry-wt
Percent Moisture: 4.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	---
74-83-9	Bromomethane	1.0	---
75-01-4	Vinyl Chloride	1.0	---
75-00-3	Chloroethane	1.0	---
75-09-2	Methylene Chloride	2.1	---
67-64-1	Acetone	5.2	---
75-15-0	Carbon Disulfide	1.0	---
75-35-4	1,1-Dichloroethene	1.0	---
75-34-3	1,1-Dichloroethane	1.0	---
156-60-5	trans-1,2-Dichloroethene	1.0	---
156-59-2	cis-1,2-Dichloroethene	1.0	---
67-66-3	Chloroform	1.0	---
107-06-2	1,2-Dichloroethane	1.0	---
78-93-3	2-Butanone	5.2	---
71-55-6	1,1,1-Trichloroethane	1.0	---
56-23-5	Carbon Tetrachloride	1.0	---
108-05-4	Vinyl Acetate	5.2	---
75-27-4	Bromodichloromethane	1.0	---
78-87-5	1,2-Dichloropropane	1.0	---
10061-01-5	cis-1,3-Dichloropropene	1.0	---
79-01-6	Trichloroethene	1.0	---
124-48-1	Dibromochloromethane	1.0	---
79-00-5	1,1,2-Trichloroethane	1.0	---
71-43-2	Benzene	1.0	---
10061-02-6	trans-1,3-Dichloropropene	1.0	---
110-75-8	2-Chloroethylvinylether	5.2	---
75-25-2	Bromoform	1.0	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	---
591-78-6	2-Hexanone	5.2	---
127-18-4	Tetrachloroethene	1.0	---
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---
108-88-3	Toluene	1.0	---
108-90-7	Chlorobenzene	1.0	---
100-41-4	Ethylbenzene	1.0	---
100-42-5	Styrene	1.0	---
75-69-4	Trichlorofluoromethane	1.0	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	---
1330-20-7	m,p-Xylene	1.0	---
95-47-6	o-Xylene	1.0	---

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	88.1%
d8-Toluene	99.7%
Bromofluorobenzene	97.9%
d4-1,2-Dichlorobenzene	93.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16G
LIMS ID: 05-3977
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 17:31

Sample Amount: 4 08 g-dry-wt
Percent Moisture: 20.8%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.5	< 2.5 U
67-64-1	Acetone	6.1	< 6.1 U
75-15-0	**Carbon Disulfide**	**1.2**	**2.3**
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	2-Butanone	6.1	< 6.1 U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.1	< 6.1 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	Trichloroethene	1.2	< 1.2 U
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.1	< 6.1 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.1	< 6.1 U
591-78-6	2-Hexanone	6.1	< 6.1 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	84.3%
d8-Toluene	97.7%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	91.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-5 MS/MSD**
Page 1 of 1

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst MS: FINN1/PAB
MSD: FINN1/PAB
Date Analyzed MS: 03/14/05 16:38
MSD: 03/14/05 17:05

Sample Amount MS: 5.12 g-dry-wt
MSD: 4.78 g-dry-wt
Moisture: 4.3%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.0	42.6	48.8	87.3%	45.1	52.3	86.2%	5.7%
Bromomethane	< 1.0	47.8	48.8	98.0%	49.9	52.3	95.4%	4.3%
Vinyl Chloride	< 1.0	41.6	48.8	85.2%	43.5	52.3	83.2%	4.5%
Chloroethane	< 1.0	42.8	48.8	87.7%	39.6	52.3	75.7%	7.8%
Methylene Chloride	< 2.0	48.3	48.8	99.0%	47.8	52.3	91.4%	1.0%
Acetone	6.1	306	244	123%	293	262	110%	4.3%
Carbon Disulfide	< 1.0	28.0	48.8	57.4%	27.0	52.3	51.6%	3.6%
1,1-Dichloroethene	< 1.0	54.4	48.8	111%	55.0	52.3	105%	1.1%
1,1-Dichloroethane	< 1.0	55.1	48.8	113%	55.5	52.3	106%	0.7%
trans-1,2-Dichloroethene	< 1.0	52.5	48.8	108%	52.5	52.3	100%	0.0%
cis-1,2-Dichloroethene	< 1.0	51.2	48.8	105%	52.7	52.3	101%	2.9%
Chloroform	< 1.0	52.7	48.8	108%	52.9	52.3	101%	0.4%
1,2-Dichloroethane	< 1.0	50.3	48.8	103%	50.7	52.3	96.9%	0.8%
2-Butanone	< 5.0	333	244	136%	329	262	126%	1.2%
1,1,1-Trichloroethane	< 1.0	45.0	48.8	92.2%	46.8	52.3	89.5%	3.9%
Carbon Tetrachloride	< 1.0	41.2	48.8	84.4%	43.0	52.3	82.2%	4.3%
Vinyl Acetate	< 5.0	22.8	48.8	46.7%	20.2	52.3	38.6%	12.1%
Bromodichloromethane	< 1.0	44.3	48.8	90.8%	45.7	52.3	87.4%	3.1%
1,2-Dichloropropane	< 1.0	52.6	48.8	108%	54.0	52.3	103%	2.6%
cis-1,3-Dichloropropene	< 1.0	47.6	48.8	97.5%	47.9	52.3	91.6%	0.6%
Trichloroethene	1.4	50.9	48.8	101%	53.9	52.3	100%	5.7%
Dibromochloromethane	< 1.0	43.2	48.8	88.5%	44.3	52.3	84.7%	2.5%
1,1,2-Trichloroethane	< 1.0	50.1	48.8	103%	52.8	52.3	101%	5.2%
Benzene	< 1.0	63.2	48.8	130%	64.7	52.3	124%	2.3%
trans-1,3-Dichloropropene	< 1.0	46.7	48.8	95.7%	50.3	52.3	96.2%	7.4%
2-Chloroethylvinylether	< 5.0	57.4	48.8	118%	56.7	52.3	108%	1.2%
Bromoform	< 1.0	39.9	48.8	81.8%	43.2	52.3	82.6%	7.9%
4-Methyl-2-Pentanone (MIBK)	< 5.0	241	244	98.8%	230	262	87.8%	4.7%
2-Hexanone	< 5.0	337	244	138%	334	262	127%	0.9%
Tetrachloroethene	< 1.0	49.5	48.8	101%	49.1	52.3	93.9%	0.8%
1,1,2,2-Tetrachloroethane	< 1.0	49.2	48.8	101%	51.7	52.3	98.9%	5.0%
Toluene	< 1.0	51.4	48.8	105%	52.3	52.3	100%	1.7%
Chlorobenzene	< 1.0	53.1	48.8	109%	53.1	52.3	102%	0.0%
Ethylbenzene	< 1.0	67.3	48.8	138%	63.9	52.3	122%	5.2%
Styrene	< 1.0	59.0	48.8	121%	59.3	52.3	113%	0.5%
Trichlorofluoromethane	< 1.0	50.4	48.8	103%	50.8	52.3	97.1%	0.8%
1,1,2-Trichloro-1,2,2-trifl	< 2.0	35.6	48.8	73.0%	34.6	52.3	66.2%	2.8%
m,p-Xylene	< 1.0	111	97.7	114%	112	105	107%	0.9%
o-Xylene	< 1.0	54.3	48.8	111%	53.8	52.3	103%	0.9%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031405**
 LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/PAB
LCSD: FINN1/PAB
Date Analyzed: 03/14/05 12:27
LCSD: 03/14/05 12:58

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	37.1	50.0	74.2%	38.2	50.0	76.4%	2.9%
Bromomethane	45.6	50.0	91.2%	45.0	50.0	90.0%	1.3%
Vinyl Chloride	40.4	50.0	80.8%	40.2	50.0	80.4%	0.5%
Chloroethane	37.8	50.0	75.6%	37.7	50.0	75.4%	0.3%
Methylene Chloride	44.8	50.0	89.6%	43.9	50.0	87.8%	2.0%
Acetone	232	250	92.8%	222	250	88.8%	4.4%
Carbon Disulfide	30.2	50.0	60.4%	29.3	50.0	58.6%	3.0%
1,1-Dichloroethene	55.4	50.0	111%	55.4	50.0	111%	0.0%
1,1-Dichloroethane	50.6	50.0	101%	51.0	50.0	102%	0.8%
trans-1,2-Dichloroethene	51.2	50.0	102%	51.2	50.0	102%	0.0%
cis-1,2-Dichloroethene	47.4	50.0	94.8%	50.4	50.0	101%	6.1%
Chloroform	47.8	50.0	95.6%	49.8	50.0	99.6%	4.1%
1,2-Dichloroethane	45.8	50.0	91.6%	46.6	50.0	93.2%	1.7%
2-Butanone	248	250	99.2%	271	250	108%	8.9%
1,1,1-Trichloroethane	42.4	50.0	84.8%	44.1	50.0	88.2%	3.9%
Carbon Tetrachloride	42.8	50.0	85.6%	42.7	50.0	85.4%	0.2%
Vinyl Acetate	35.8	50.0	71.6%	39.6	50.0	79.2%	10.1%
Bromodichloromethane	44.0	50.0	88.0%	44.0	50.0	88.0%	0.0%
1,2-Dichloropropane	50.7	50.0	101%	51.4	50.0	103%	1.4%
cis-1,3-Dichloropropene	46.2	50.0	92.4%	47.6	50.0	95.2%	3.0%
Trichloroethene	51.2	50.0	102%	50.9	50.0	102%	0.6%
Dibromochloromethane	42.4	50.0	84.8%	45.9	50.0	91.8%	7.9%
1,1,2-Trichloroethane	46.0	50.0	92.0%	48.6	50.0	97.2%	5.5%
Benzene	56.5	50.0	113%	54.5	50.0	109%	3.6%
trans-1,3-Dichloropropene	46.6	50.0	93.2%	47.7	50.0	95.4%	2.3%
2-Chloroethylvinylether	48.9	50.0	97.8%	50.7	50.0	101%	3.6%
Bromoform	42.0	50.0	84.0%	44.7	50.0	89.4%	6.2%
4-Methyl-2-Pentanone (MIBK)	186	250	74.4%	206	250	82.4%	10.2%
2-Hexanone	254	250	102%	286	250	114%	11.9%
Tetrachloroethene	53.0	50.0	106%	54.1	50.0	108%	2.1%
1,1,2,2-Tetrachloroethane	44.1	50.0	88.2%	48.1	50.0	96.2%	8.7%
Toluene	51.1	50.0	102%	51.4	50.0	103%	0.6%
Chlorobenzene	53.5	50.0	107%	54.4	50.0	109%	1.7%
Ethylbenzene	59.9	50.0	120%	61.4	50.0	123%	2.5%
Styrene	58.7	50.0	117%	60.0	50.0	120%	2.2%
Trichlorofluoromethane	51.7	50.0	103%	53.2	50.0	106%	2.9%
1,1,2-Trichloro-1,2,2-trifl	39.5	50.0	79.0%	37.9	50.0	75.8%	4.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031405**
 LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-3976
Matrix: Soil
Date Analyzed: 03/14/05 12:27
LCSD: 03/14/05 12:58

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	111	100	111%	108	100	108%	2.7%
o-Xylene	53.4	50.0	107%	54.9	50.0	110%	2.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	77.3%	78.3%
d8-Toluene	97.1%	96.5%
Bromofluorobenzene	93.6%	94.2%
d4-1,2-Dichlorobenzene	89.1%	91.0%

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HU16

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
030705MB	Method Blank	91.7%	104%	88.2%	92.3%	0
HU16LCS	Lab Control	97.4%	107%	96.2%	95.0%	0
HU16LCD	LCDuplicate	90.8%	97.1%	92.5%	88.1%	0
HU16H	SY-P2-601A-10EB	111%	121%	99.0%	104%	0
HU16I	TRIP BLANK	116%	119%	97.8%	105%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

FORM-II VOA-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-030705**
 METHOD BLANK

Lab Sample ID: MB-030705
LIMS ID: 05-3978
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/05 12:55

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.7%
d8-Toluene	104%
Bromofluorobenzene	88.2%
d4-1,2-Dichlorobenzene	92.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-10EB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16H
LIMS ID: 05-397B
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/05 14:41

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.2**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	121%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: TRIP BLANK SAMPLE**

Lab Sample ID: HU16I
LIMS ID: 05-3979
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/24/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/05 15:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	119%
Bromofluorobenzene	97.8%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-030705**
 LCS/LCSD

Lab Sample ID: LCS-030705
LIMS ID: 05-3978
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN1/PAB
LCSD: FINN1/PAB
Date Analyzed LCS: 03/07/05 11:47
LCSD: 03/07/05 12:24

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2.9	4.0	72.5%	3.1	4.0	77.5%	6.7%
Bromomethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
Vinyl Chloride	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Chloroethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
Methylene Chloride	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Acetone	18.1	20.0	90.5%	17.6	20.0	88.0%	2.8%
Carbon Disulfide	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
1,1-Dichloroethene	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
1,1-Dichloroethane	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
trans-1,2-Dichloroethene	3.7	4.0	92.5%	3.5	4.0	87.5%	5.6%
cis-1,2-Dichloroethene	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
Chloroform	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
1,2-Dichloroethane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
2-Butanone	18.4	20.0	92.0%	18.3	20.0	91.5%	0.5%
1,1,1-Trichloroethane	3.2	4.0	80.0%	3.3	4.0	82.5%	3.1%
Carbon Tetrachloride	3.4	4.0	85.0%	3.4	4.0	85.0%	0.0%
Vinyl Acetate	3.9	4.0	97.5%	3.7	4.0	92.5%	5.3%
Bromodichloromethane	3.5	4.0	87.5%	3.2	4.0	80.0%	9.0%
1,2-Dichloropropane	3.8	4.0	95.0%	3.6	4.0	90.0%	5.4%
cis-1,3-Dichloropropene	3.9	4.0	97.5%	3.7	4.0	92.5%	5.3%
Trichloroethene	4.0	4.0	100%	3.8	4.0	95.0%	5.1%
Dibromochloromethane	3.5	4.0	87.5%	3.4	4.0	85.0%	2.9%
1,1,2-Trichloroethane	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
Benzene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
trans-1,3-Dichloropropene	3.8	4.0	95.0%	3.6	4.0	90.0%	5.4%
2-Chloroethylvinylether	3.2	4.0	80.0%	2.9	4.0	72.5%	9.8%
Bromoform	3.7	4.0	92.5%	3.4	4.0	85.0%	8.5%
4-Methyl-2-Pentanone (MIBK)	17.2	20.0	86.0%	16.6	20.0	83.0%	3.6%
2-Hexanone	18.7	20.0	93.5%	19.1	20.0	95.5%	2.1%
Tetrachloroethene	4.1	4.0	102%	4.1	4.0	102%	0.0%
1,1,2,2-Tetrachloroethane	3.7	4.0	92.5%	3.5	4.0	87.5%	5.6%
Toluene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Chlorobenzene	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Ethylbenzene	4.4	4.0	110%	4.3	4.0	108%	2.3%
Styrene	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
Trichlorofluoromethane	3.8	4.0	95.0%	3.4	4.0	85.0%	11.1%
1,1,2-Trichloro-1,2,2-trifl	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
m,p-Xylene	8.6	8.0	108%	8.7	8.0	109%	1.2%
o-Xylene	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-030705**
 LCS/LCSD

Lab Sample ID: LCS-030705
LIMS ID: 05-3978
Matrix: Water
Date Analyzed: 03/07/05 11:47
LCSD: 03/07/05 12:24

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	97.4%	90.8%
d8-Toluene	107%	97.1%
Bromofluorobenzene	96.2%	92.5%
d4-1,2-Dichlorobenzene	95.0%	88.1%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-030805	40.4%	58.8%	74.0%	56.4%	44.0%	38.9%	73.9%	56.8%	0
LCS-030805	40.8%	60.8%	71.6%	57.6%	44.0%	38.7%	76.5%	57.9%	0
LCSD-030805	45.6%	67.2%	79.6%	63.2%	51.2%	41.6%	86.9%	62.7%	0
SY-P2-602A-1.5	44.4%	66.8%	79.2%	61.6%	49.1%	40.8%	78.4%	61.3%	0
SY-P2-602A-5	36.8%	60.4%	68.8%	49.6%	42.7%	37.6%	72.0%	53.3%	0
SY-P2-602A-5 MS	42.4%	65.6%	76.4%	57.6%	49.6%	42.7%	83.2%	58.7%	0
SY-P2-602A-5 MSD	40.8%	65.6%	75.2%	55.2%	47.2%	41.6%	90.9%	57.6%	0
SY-P2-602A-10	33.6%	55.2%	62.4%	44.4%	38.7%	34.7%	68.8%	47.2%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(24-100)	(7-113)
(FBP) = 2-Fluorobiphenyl	(27-108)	(30-99)
(TPH) = d14-p-Terphenyl	(38-134)	(39-116)
(DCB) = d4-1,2-Dichlorobenzene	(24-96)	(23-84)
(PHL) = d5-Phenol	(34-99)	(27-97)
(2FP) = 2-Fluorophenol	(35-102)	(33-93)
(TBP) = 2,4,6-Tribromophenol	(28-113)	(22-127)
(2CP) = d4-2-Chlorophenol	(33-97)	(30-94)

Prep Method: SW3550B
Log Number Range: 05-3971 to 05-3973

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-030805
METHOD BLANK

Lab Sample ID: MB-030805
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 12:52
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-030805
METHOD BLANK

Lab Sample ID: MB-030805
LIMS ID: 05-3971
Matrix: Soil
Date Analyzed: 03/14/05 12:52

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	40.4%	2-Fluorobiphenyl	58.8%
d14-p-Terphenyl	74.0%	d4-1,2-Dichlorobenzene	56.4%
d5-Phenol	44.0%	2-Fluorophenol	38.9%
2,4,6-Tribromophenol	73.9%	d4-2-Chlorophenol	56.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 19:35
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 2.6%
pH: 6.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Date Analyzed: 03/14/05 19:35

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	44.4%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	79.2%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	49.1%	2-Fluorophenol	40.8%
2,4,6-Tribromophenol	78.4%	d4-2-Chlorophenol	61.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 20:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.58 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.5%
pH: 7.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Date Analyzed: 03/14/05 20:06

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	36.8%	2-Fluorobiphenyl	60.4%
d14-p-Terphenyl	68.8%	d4-1,2-Dichlorobenzene	49.6%
d5-Phenol	42.7%	2-Fluorophenol	37.6%
2,4,6-Tribromophenol	72.0%	d4-2-Chlorophenol	53.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
MATRIX SPIKE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 20:37
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.58 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.5%
pH: 7.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
MATRIX SPIKE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Date Analyzed: 03/14/05 20:37

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	42.4%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	76.4%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	49.6%	2-Fluorophenol	42.7%
2,4,6-Tribromophenol	83.2%	d4-2-Chlorophenol	58.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 21:08
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.5%
pH: 7.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Date Analyzed: 03/14/05 21:08

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	40.8%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	75.2%	d4-1,2-Dichlorobenzene	55.2%
d5-Phenol	47.2%	2-Fluorophenol	41.6%
2,4,6-Tribromophenol	90.9%	d4-2-Chlorophenol	57.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 21:39
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.84 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.8%
pH: 7.4

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541 73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Date Analyzed: 03/14/05 21:39

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	33.6%	2-Fluorobiphenyl	55.2%
d14-p-Terphenyl	62.4%	d4-1,2-Dichlorobenzene	44.4%
d5-Phenol	38.7%	2-Fluorophenol	34.7%
2,4,6-Tribromophenol	68.8%	d4-2-Chlorophenol	47.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: SY-P2-602A-5
MS/MSD

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted MS/MSD: 03/08/05

Date Analyzed MS: 03/14/05 20:37
MSD: 03/14/05 21:08
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: NO

Sample Amount MS: 7.58 g-dry-wt
MSD: 7.56 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 5.5%
pH: 7.3

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 66.0	1170	2470	47.4%	1150	2480	46.4%	1.7%
2-Chlorophenol	< 66.0	1380	2470	55.9%	1360	2480	54.8%	1.5%
1,4-Dichlorobenzene	< 66.0	836	1650	50.7%	815	1650	49.4%	2.5%
N-Nitroso-Di-N-Propylamine	< 330	716	1650	43.4%	728	1650	44.1%	1.7%
1,2,4-Trichlorobenzene	< 66.0	1010	1650	61.2%	973	1650	59.0%	3.7%
4-Chloro-3-methylphenol	< 330	1640	2470	66.4%	1580	2480	63.7%	3.7%
Acenaphthene	< 66.0	1070	1650	64.8%	1040	1650	63.0%	2.8%
4-Nitrophenol	< 330	1610	2470	65.2%	1700	2480	68.5%	5.4%
2,4-Dinitrotoluene	< 330	699	1650	42.4%	749	1650	45.4%	6.9%
Pentachlorophenol	< 330	2010	2470	81.4%	1900	2480	76.6%	5.6%
Phenanthrene	< 66.0	142	198	71.7%	136	198	68.7%	4.3%
Pyrene	< 66.0	1110	1650	67.3%	1100	1650	66.7%	0.9%
Chrysene	< 66.0	168	198	84.8%	162	198	81.8%	3.6%
Benzo(k)fluoranthene	< 66.0	133	198	67.2%	130	198	65.7%	2.3%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-030805
LCS/LCSD

Lab Sample ID: LCS-030805
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted LCS/LCSD: 03/08/05

Date Analyzed LCS: 03/14/05 13:23
LCSD: 03/14/05 19:04
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1110	2500	44.4%	1320	2500	52.8%	17.3%
2-Chlorophenol	1330	2500	53.2%	1580	2500	63.2%	17.2%
1,4-Dichlorobenzene	842	1670	50.4%	1010	1670	60.5%	18.1%
N-Nitroso-Di-N-Propylamine	701	1670	42.0%	825	1670	49.4%	16.3%
1,2,4-Trichlorobenzene	951	1670	56.9%	1150	1670	68.9%	18.9%
4-Chloro-3-methylphenol	1410	2500	56.4%	1670	2500	66.8%	16.9%
Acenaphthene	908	1670	54.4%	1120	1670	67.1%	20.9%
4-Nitrophenol	1330	2500	53.2%	1570	2500	62.8%	16.6%
2,4-Dinitrotoluene	1110	1670	66.5%	713	1670	42.7%	43.6%
Pentachlorophenol	1670	2500	66.8%	2420	2500	96.8%	36.7%
Phenanthrene	116	200	58.0%	136	200	68.0%	15.9%
Pyrene	1020	1670	61.1%	1190	1670	71.3%	15.4%
Chrysene	147	200	73.5%	175	200	87.5%	17.4%
Benzo(k)fluoranthene	92.7	200	46.4%	143	200	71.5%	42.7%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	40.8%	45.6%
2-Fluorobiphenyl	60.8%	67.2%
d14-p-Terphenyl	71.6%	79.6%
d4-1,2-Dichlorobenzene	57.6%	63.2%
d5-Phenol	44.0%	51.2%
2-Fluorophenol	38.7%	41.6%
2,4,6-Tribromophenol	76.5%	86.9%
d4-2-Chlorophenol	57.9%	62.7%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-030705	72.4%	71.2%	74.0%	66.4%	62.4%	61.9%	81.3%	71.2%	0
LCS-030705	83.6%	78.4%	90.8%	69.6%	77.9%	75.7%	90.1%	81.6%	0
LCSD-030705	81.2%	78.4%	90.8%	68.8%	78.4%	75.5%	87.2%	80.0%	0
SY-P2-602A-10EB	77.6%	74.0%	83.2%	66.4%	75.5%	71.2%	84.0%	78.4%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-3974 to 05-3974

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-030705
METHOD BLANK

Lab Sample ID: MB-030705
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/07/05
Date Analyzed: 03/11/05 15:24
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-030705
METHOD BLANK

Lab Sample ID: MB-030705
LIMS ID: 05-3974
Matrix: Water
Date Analyzed: 03/11/05 15:24

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.4%	2-Fluorobiphenyl	71.2%
d14-p-Terphenyl	74.0%	d4-1,2-Dichlorobenzene	66.4%
d5-Phenol	62.4%	2-Fluorophenol	61.9%
2,4,6-Tribromophenol	81.3%	d4-2-Chlorophenol	71.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/07/05
Date Analyzed: 03/11/05 17:09
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Date Analyzed: 03/11/05 17:09

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.6%	2-Fluorobiphenyl	74.0%
d14-p-Terphenyl	83.2%	d4-1,2-Dichlorobenzene	66.4%
d5-Phenol	75.5%	2-Fluorophenol	71.2%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	78.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-030705
LCS/LCSD

Lab Sample ID: LCS-030705
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted LCS/LCSD: 03/07/05

Date Analyzed LCS: 03/11/05 15:59
LCSD: 03/11/05 16:34
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR

GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	18.4	25.0	73.6%	18.6	25.0	74.4%	1.1%
Bis-(2-Chloroethyl) Ether	20.6	25.0	82.4%	20.0	25.0	80.0%	3.0%
2-Chlorophenol	20.0	25.0	80.0%	19.7	25.0	78.8%	1.5%
1,3-Dichlorobenzene	12.4	25.0	49.6%	11.8	25.0	47.2%	5.0%
1,4-Dichlorobenzene	12.9	25.0	51.6%	12.3	25.0	49.2%	4.8%
Benzyl Alcohol	16.1	25.0	64.4%	16.6	25.0	66.4%	3.1%
1,2-Dichlorobenzene	14.0	25.0	56.0%	13.3	25.0	53.2%	5.1%
2-Methylphenol	20.6	25.0	82.4%	20.3	25.0	81.2%	1.5%
2,2'-Oxybis(1-Chloropropane)	21.1	25.0	84.4%	20.6	25.0	82.4%	2.4%
4-Methylphenol	44.3	50.0	88.6%	43.7	50.0	87.4%	1.4%
N-Nitroso-Di-N-Propylamine	21.9	25.0	87.6%	21.4	25.0	85.6%	2.3%
Hexachloroethane	10.8	25.0	43.2%	10.7	25.0	42.8%	0.9%
Nitrobenzene	20.4	25.0	81.6%	19.5	25.0	78.0%	4.5%
Isophorone	21.6	25.0	86.4%	21.4	25.0	85.6%	0.9%
2-Nitrophenol	20.6	25.0	82.4%	20.5	25.0	82.0%	0.5%
2,4-Dimethylphenol	15.7	25.0	62.8%	15.5	25.0	62.0%	1.3%
Benzoic Acid	24.3	25.0	97.2%	24.6	25.0	98.4%	1.2%
bis(2-Chloroethoxy) Methane	21.1	25.0	84.4%	20.8	25.0	83.2%	1.4%
2,4-Dichlorophenol	21.0	25.0	84.0%	20.4	25.0	81.6%	2.9%
1,2,4-Trichlorobenzene	13.5	25.0	54.0%	13.0	25.0	52.0%	3.8%
Naphthalene	17.5	25.0	70.0%	16.7	25.0	66.8%	4.7%
4-Chloroaniline	9.9	25.0	39.6%	11.8	25.0	47.2%	17.4%
Hexachlorobutadiene	10.8	25.0	43.2%	10.6	25.0	42.4%	1.9%
4-Chloro-3-methylphenol	22.6	25.0	90.4%	22.0	25.0	88.0%	2.7%
2-Methylnaphthalene	18.0	25.0	72.0%	17.6	25.0	70.4%	2.2%
Hexachlorocyclopentadiene	16.8	25.0	67.2%	17.2	25.0	68.8%	2.4%
2,4,6-Trichlorophenol	20.8	25.0	83.2%	20.9	25.0	83.6%	0.5%
2,4,5-Trichlorophenol	21.7	25.0	86.8%	21.4	25.0	85.6%	1.4%
2-Chloronaphthalene	17.7	25.0	70.8%	17.5	25.0	70.0%	1.1%
2-Nitroaniline	20.9	25.0	83.6%	21.1	25.0	84.4%	1.0%
Dimethylphthalate	21.2	25.0	84.8%	21.1	25.0	84.4%	0.5%
Acenaphthylene	19.1	25.0	76.4%	18.8	25.0	75.2%	1.6%
3-Nitroaniline	19.6	25.0	78.4%	19.6	25.0	78.4%	0.0%
Acenaphthene	19.0	25.0	76.0%	19.0	25.0	76.0%	0.0%
2,4-Dinitrophenol	34.3	25.0	137%	34.7	25.0	139%	1.2%
4-Nitrophenol	24.7	25.0	98.8%	26.0	25.0	104%	5.1%
Dibenzofuran	19.7	25.0	78.8%	19.6	25.0	78.4%	0.5%
2,6-Dinitrotoluene	22.3	25.0	89.2%	22.4	25.0	89.6%	0.4%
2,4-Dinitrotoluene	22.5	25.0	90.0%	22.5	25.0	90.0%	0.0%
Diethylphthalate	22.3	25.0	89.2%	22.3	25.0	89.2%	0.0%
4-Chlorophenyl-phenylether	20.6	25.0	82.4%	20.3	25.0	81.2%	1.5%
Fluorene	20.8	25.0	83.2%	20.6	25.0	82.4%	1.0%
4-Nitroaniline	20.1	25.0	80.4%	20.1	25.0	80.4%	0.0%
4,6-Dinitro-2-Methylphenol	26.2	25.0	105%	25.9	25.0	104%	1.2%
N-Nitrosodiphenylamine	20.0	25.0	80.0%	19.6	25.0	78.4%	2.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-030705
LCS/LCSD

Lab Sample ID: LCS-030705
LIMS ID: 05-3974
Matrix: Water
Date Analyzed: 03/11/05 15:59

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
4-Bromophenyl-phenylether	21.0	25.0	84.0%	20.8	25.0	83.2%	1.0%
Hexachlorobenzene	20.0	25.0	80.0%	19.8	25.0	79.2%	1.0%
Pentachlorophenol	21.3	25.0	85.2%	20.7	25.0	82.8%	2.9%
Phenanthrene	23.0	28.0	82.1%	22.5	28.0	80.4%	2.2%
Carbazole	21.1	25.0	84.4%	20.6	25.0	82.4%	2.4%
Anthracene	20.4	25.0	81.6%	20.2	25.0	80.8%	1.0%
Di-n-Butylphthalate	22.9	25.0	91.6%	22.5	25.0	90.0%	1.8%
Fluoranthene	21.7	25.0	86.8%	21.3	25.0	85.2%	1.9%
Pyrene	22.2	25.0	88.8%	22.1	25.0	88.4%	0.5%
Butylbenzylphthalate	22.5	25.0	90.0%	22.2	25.0	88.8%	1.3%
3,3'-Dichlorobenzidine	11.9	25.0	47.6%	10.9	25.0	43.6%	8.8%
Benzo(a)anthracene	21.0	25.0	84.0%	21.0	25.0	84.0%	0.0%
bis(2-Ethylhexyl)phthalate	23.7	25.0	94.8%	23.6	25.0	94.4%	0.4%
Chrysene	23.0	28.0	82.1%	23.2	28.0	82.9%	0.9%
Di-n-Octyl phthalate	21.5	25.0	86.0%	21.3	25.0	85.2%	0.9%
Benzo(b)fluoranthene	19.9	25.0	79.6%	21.7	25.0	86.8%	8.7%
Benzo(k)fluoranthene	26.1	28.0	93.2%	24.4	28.0	87.1%	6.7%
Benzo(a)pyrene	22.0	25.0	88.0%	21.8	25.0	87.2%	0.9%
Indeno(1,2,3-cd)pyrene	22.9	25.0	91.6%	22.1	25.0	88.4%	3.6%
Dibenz(a,h)anthracene	24.1	25.0	96.4%	23.2	25.0	92.8%	3.8%
Benzo(g,h,i)perylene	22.4	25.0	89.6%	21.5	25.0	86.0%	4.1%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	83.6%	81.2%
2-Fluorobiphenyl	78.4%	78.4%
d14-p-Terphenyl	90.8%	90.8%
d4-1,2-Dichlorobenzene	69.6%	68.8%
d5-Phenol	77.9%	78.4%
2-Fluorophenol	75.7%	75.5%
2,4,6-Tribromophenol	90.1%	87.2%
d4-2-Chlorophenol	81.6%	80.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	MNP	DBA	TOT OUT
MB-030805	56.3%	82.3%	0
LCS-030805	56.3%	76.7%	0
LCSD-030805	55.3%	78.0%	0
SY-P2-602A-1.5	62.3%	86.3%	0
SY-P2-602A-5	54.3%	63.3%	0
SY-P2-602A-5 MS	60.7%	55.3%	0
SY-P2-602A-5 MSD	57.0%	55.0%	0
SY-P2-602A-10	47.3%	45.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(37-101)	(27-106)
(DBA) = d14-Dibenzo(a,h)anthracene	(30-126)	(10-123)

Prep Method: SW3550B
Log Number Range: 05-3971 to 05-3973

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: MB-030805
METHOD BLANK

Lab Sample ID: MB-030805
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 19:33
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.7	< 6.7 U
91-57-6	2-Methylnaphthalene	6.7	< 6.7 U
208-96-8	Acenaphthylene	6.7	< 6.7 U
83-32-9	Acenaphthene	6.7	< 6.7 U
86-73-7	Fluorene	6.7	< 6.7 U
85-01-8	Phenanthrene	6.7	< 6.7 U
120-12-7	Anthracene	6.7	< 6.7 U
206-44-0	Fluoranthene	6.7	< 6.7 U
129-00-0	Pyrene	6.7	< 6.7 U
56-55-3	Benzo(a)anthracene	6.7	< 6.7 U
218-01-9	Chrysene	6.7	< 6.7 U
205-99-2	Benzo(b)fluoranthene	6.7	< 6.7 U
207-08-9	Benzo(k)fluoranthene	6.7	< 6.7 U
50-32-8	Benzo(a)pyrene	6.7	< 6.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	< 6.7 U
53-70-3	Dibenz(a,h)anthracene	6.7	< 6.7 U
191-24-2	Benzo(g,h,i)perylene	6.7	< 6.7 U
132-64-9	Dibenzofuran	6.7	< 6.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	56.3%
d14-Dibenzo(a,h)anthracene	82.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 20:50
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 2.6 %
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracene	86.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 21:16
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.58 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.5 %
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**8.6**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	**Benzo(a)pyrene**	**6.6**	**22**
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	54.3%
d14-Dibenzo(a,h)anthracene	63.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-P2-602A-5
MATRIX SPIKE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 21:42
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.58 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.5 %
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	---
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	---
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	---
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	---
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	---
50-32-8	**Benzo(a)pyrene**	**6.6**	**16**
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.7%
d14-Dibenzo(a,h)anthracene	55.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-P2-602A-5
MATRIX SPIKE DUP

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 22:07
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.5 %
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	---
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	---
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	---
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	---
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	---
50-32-8	**Benzo(a)pyrene**	**6.6**	**28**
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	57.0%
d14-Dibenzo(a,h)anthracene	55.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 22:33
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.84 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 17.8 %
pH: 7.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	**Benzo(a)pyrene**	**6.4**	**39**
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	47.3%
d14-Dibenzo(a,h)anthracene	45.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-P2-602A-5
MS/MSD

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted MS/MSD: 03/08/05

Date Analyzed MS: 03/09/05 21:42
MSD: 03/09/05 22:07
Instrument/Analyst MS: NT1/YZ
MSD: NT1/YZ
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount MS: 7.58 g-dry-wt
MSD: 7.56 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
pH: 7.3
Moisture: 5.5%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Acenaphthene	< 6.6	985	1650	59.7%	979	1650	59.2%	0.6%
Phenanthrene	8.6	154	198	73.4%	148	198	70.4%	4.0%
Pyrene	< 6.6	1080	1650	65.5%	1070	1650	64.7%	0.9%
Chrysene	< 6.6	144	198	72.7%	152	198	76.8%	5.4%
Benzo(k)fluoranthene	< 6.6	138	198	69.7%	143	198	72.2%	3.6%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-030805
LCS/LCSD

Lab Sample ID: LCS-030805
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted LCS/LCSD: 03/08/05
Date Analyzed LCS: 03/09/05 19:59
LCSD: 03/09/05 20:25
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 g
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
pH: NA
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acenaphthene	894	1670	53.5%	931	1670	55.7%	4.1%
Phenanthrene	119	200	59.5%	130	200	65.0%	8.8%
Pyrene	963	1670	57.7%	1040	1670	62.3%	7.7%
Chrysene	127	200	63.5%	141	200	70.5%	10.4%
Benzo(k)fluoranthene	125	200	62.5%	135	200	67.5%	7.7%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	56.3%	55.3%
d14-Dibenzo(a,h)anthracene	76.7%	78.0%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	MNP	DBA	TOT OUT
MB-030705	70.7%	61.7%	0
LCS-030705	82.3%	95.7%	0
LCSD-030705	79.3%	100%	0
SY-P2-602A-10EB	68.7%	93.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-3974 to 05-3974

FORM-II SIM SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: MB-030705
METHOD BLANK

Lab Sample ID: MB-030705
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/10/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/07/05
Date Analyzed: 03/09/05 17:50
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracene	61.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/10/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/07/05
Date Analyzed: 03/09/05 19:07
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracene	93.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: LCS-030705
LCS/LCSD

Lab Sample ID: LCS-030705
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted LCS/LCSD: 03/07/05

Date Analyzed LCS: 03/09/05 18:16
LCSD: 03/09/05 18:42
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	21.2	28.0	75.7%	21.7	28.0	77.5%	2.3%
Chrysene	20.9	28.0	74.6%	22.2	28.0	79.3%	6.0%
Benzo(k)fluoranthene	23.0	28.0	82.1%	21.0	28.0	75.0%	9.1%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	82.3%	79.3%
d14-Dibenzo(a,h)anthracene	95.7%	100%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCBP	TCMX	TOT OUT
MB-030805	109%	93.2%	0
LCS-030805	101%	95.2%	0
LCSD-030805	100%	98.5%	0
SY-P2-602A-1.5	104%	92.2%	0
SY-P2-602A-5	98.0%	85.0%	0
SY-P2-602A-5 MS	98.8%	93.0%	0
SY-P2-602A-5 MSD	102%	100%	0
SY-P2-602A-10	102%	91.2%	0
SY-P2-601A-1.5	117%	100%	0
SY-P2-601A-5	106%	96.0%	0
SY-P2-601A-10	106%	95.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-3971 to 05-3977

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-030805
METHOD BLANK

Lab Sample ID: MB-030805
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 14:45
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	109%
Tetrachlorometaxylene	93.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 15:36
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.3
Percent Moisture: 2.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	92.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 15:53
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 5.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.0%
Tetrachlorometaxylene	85.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-P2-602A-5
MATRIX SPIKE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 16:10
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 5.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	---
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	---
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.8%
Tetrachlorometaxylene	93.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-P2-602A-5
MATRIX SPIKE DUP

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 16:27
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 5.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	---
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	---
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 16:44
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.4
Percent Moisture: 17.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	91.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-601A-1.5
SAMPLE

Lab Sample ID: HU16E
LIMS ID: 05-3975
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 17:01
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 2.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	100%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-601A-5
SAMPLE

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 17:18
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.5 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.7
Percent Moisture: 4.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-601A-10
SAMPLE

Lab Sample ID: HU16G
LIMS ID: 05-3977
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 17:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 20.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	95.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: SY-P2-602A-5
MS/MSD

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted MS/MSD: 03/08/05

Date Analyzed MS: 03/11/05 16:10
MSD: 03/11/05 16:27
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount MS: 12.3 g-dry-wt
MSD: 12.3 g-dry-wt
Final Extract Volume MS: 4.0 mL
MSD: 4.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 5.5%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 32.6 U	147	163	90.2%	156	163	95.7%	5.9%
Aroclor 1260	< 32.6 U	152	163	93.3%	159	163	97.5%	4.5%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: LCS-030805
LCS/LCSD

Lab Sample ID: LCS-030805
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/08/05
Date Analyzed LCS: 03/11/05 15:02
LCSD: 03/11/05 15:19
Instrument/Analyst LCS: ECD5/LJR
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 12.0 g-dry-wt
LCSD: 12.0 g-dry-wt
Final Extract Volume LCS: 4.0 mL
LCSD: 4.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	160	167	96.0%	164	167	98.4%	2.5%
Aroclor 1260	167	167	100%	168	167	101%	0.6%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	101%	100%
Tetrachlorometaxylene	95.2%	98.5%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCBP	TCMX	TOT OUT
MB-030405	99.5%	88.2%	0
LCS-030405	97.0%	83.2%	0
LCSD-030405	64.2%	76.8%	0
SY-P2-602A-10EB	31.0%	83.5%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-3974 to 05-3974

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-030405
METHOD BLANK

Lab Sample ID: MB-030405
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/14/05

QC Report No. HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 18:30
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.5%
Tetrachlorometaxylene	88.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 19:31
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	31.0%
Tetrachlorometaxylene	83.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-030405
LCS/LCSD

Lab Sample ID: LCS-030405
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/04/05
Date Analyzed LCS: 03/08/05 18:51
LCSD: 03/08/05 19:11
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.12	5.12	80.5%	3.66	5.12	71.5%	11.8%
Aroclor 1260	4.83	5.12	94.3%	4.33	5.12	84.6%	10.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	97.0%	64.2%
Tetrachlorometaxylene	83.2%	76.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 97.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	**7,870**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	**12.5**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**9.5**	
3050B	03/07/05	6010B	03/09/05	**7439-92-1**	**Lead**	2	**5**	
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	**2,540**	
3050B	03/07/05	6010B	03/09/05	**7439-96-5**	**Manganese**	0.1	**123**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	**42.1**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	**23.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 88.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	**8,400**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	**10.3**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**13.0**	
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	2	U
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	**1,970**	
3050B	03/07/05	6010B	03/09/05	**7439-96-5**	**Manganese**	0.1	**89.0**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	**35.0**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	**17.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-5
DUPLICATE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Aluminum	6010B	8,400	8,380	0.2%	+/- 20%	
Antimony	6010B	5 U	5 U	0.0%	+/- 5	L
Arsenic	6010B	5 U	5 U	0.0%	+/- 5	L
Beryllium	6010B	0.1	0.1	0.0%	+/- 0.1	L
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	6010B	10.3	9.8	5.0%	+/- 20%	
Copper	6010B	13.0	13.3	2.3%	+/- 20%	
Lead	6010B	2 U	2 U	0.0%	+/- 2	L
Magnesium	6010B	1,970	1,980	0.5%	+/- 20%	
Manganese	6010B	89.0	88.4	0.7%	+/- 20%	
Mercury	7471A	0.05 U	0.05 U	0.0%	+/- 0.05	L
Nickel	6010B	8	8	0.0%	+/- 20%	
Selenium	6010B	5 U	5 U	0.0%	+/- 5	L
Silver	6010B	0.3 U	0.3 U	0.0%	+/- 0.3	L
Thallium	6010B	5 U	5 U	0.0%	+/- 5	L
Vanadium	6010B	35.0	33.4	4.7%	+/- 20%	
Zinc	6010B	17.5	17.8	1.7%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-5
MATRIX SPIKE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Aluminum	6010B	8,400	8,720	214	150%	H
Antimony	6010B	5 U	64	214	29.9%	N
Arsenic	6010B	5 U	220	214	103%	
Beryllium	6010B	0.1	54.0	53.5	101%	
Cadmium	6010B	0.2 U	54.3	53.5	101%	
Chromium	6010B	10.3	61.0	53.5	94.8%	
Copper	6010B	13.0	68.0	53.5	103%	
Lead	6010B	2 U	211	214	98.6%	
Magnesium	6010B	1,970	3,060	1,070	102%	
Manganese	6010B	89.0	141	53.5	97.2%	
Mercury	7471A	0.05 U	0.55	0.533	103%	
Nickel	6010B	8	59	53.5	95.3%	
Selenium	6010B	5 U	218	214	102%	
Silver	6010B	0.3 U	54.3	53.5	101%	
Thallium	6010B	5 U	210	214	98.1%	
Vanadium	6010B	35.0	87.0	53.5	97.2%	
Zinc	6010B	17.5	67.5	53.5	93.5%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 81.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	7429-90-5	Aluminum	6	11,800	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	7440-47-3	Chromium	0.6	13.5	
3050B	03/07/05	6010B	03/09/05	7440-50-8	Copper	0.2	17.8	
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	4	
3050B	03/07/05	6010B	03/09/05	7439-95-4	Magnesium	6	2,840	
3050B	03/07/05	6010B	03/09/05	7439-96-5	Manganese	0.1	127	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/07/05	6010B	03/09/05	7440-02-0	Nickel	1	10	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-62-2	Vanadium	0.4	44.2	
3050B	03/07/05	6010B	03/09/05	7440-66-6	Zinc	0.7	28.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/07/05	6010B	03/09/05	7429-90-5	Aluminum	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7440-36-0	Antimony	0.05	0.05	U
200.8	03/07/05	200.8	03/08/05	7440-38-2	Arsenic	0.0002	0.0002	U
3010A	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.001	0.001	U
3010A	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/07/05	6010B	03/09/05	7440-47-3	Chromium	0.005	0.005	U
200.8	03/07/05	200.8	03/08/05	7440-50-8	Copper	0.0005	0.0005	U
200.8	03/07/05	200.8	03/08/05	7439-92-1	Lead	0.001	0.001	U
3010A	03/07/05	6010B	03/09/05	7439-95-4	Magnesium	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7439-96-5	Manganese	0.001	0.001	U
7470A	03/07/05	7470A	03/07/05	7439-97-6	Mercury	0.0001	0.0001	U
200.8	03/07/05	200.8	03/08/05	7440-02-0	Nickel	0.0005	0.0005	U
3010A	03/07/05	6010B	03/09/05	7782-49-2	Selenium	0.05	0.05	U
200.8	03/07/05	200.8	03/08/05	7440-22-4	Silver	0.0002	0.0002	U
3010A	03/07/05	6010B	03/09/05	7440-28-0	Thallium	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7440-62-2	Vanadium	0.003	0.003	U
3010A	03/07/05	6010B	03/09/05	7440-66-6	Zinc	0.006	0.006	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-601A-1.5
SAMPLE

Lab Sample ID: HU16E
LIMS ID: 05-3975
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 97.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	**8,730**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	**11.4**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**12.2**	
3050B	03/07/05	6010B	03/09/05	**7439-92-1**	**Lead**	2	**9**	
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	**3,070**	
3050B	03/07/05	6010B	03/09/05	**7439-96-5**	**Manganese**	0.1	**165**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**10**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	**43.2**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	**25.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-601A-5
SAMPLE

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 95.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	8,500	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	10.6	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	9.2	
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	2	U
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	2,500	
3050B	03/07/05	6010B	03/09/05	**7439-96-5**	**Manganese**	0.1	122	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	7	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	40.1	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	21.8	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-601A-10
SAMPLE

Lab Sample ID: HU16G
LIMS ID: 05-3977
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 79.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	7429-90-5	Aluminum	6	11,900	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	7440-47-3	Chromium	0.6	13.0	
3050B	03/07/05	6010B	03/09/05	7440-50-8	Copper	0.2	14.2	
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	2	U
3050B	03/07/05	6010B	03/09/05	7439-95-4	Magnesium	6	2,560	
3050B	03/07/05	6010B	03/09/05	7439-96-5	Manganese	0.1	135	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	7440-02-0	Nickel	1	9	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-62-2	Vanadium	0.4	48.8	
3050B	03/07/05	6010B	03/09/05	7440-66-6	Zinc	0.7	23.8	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HU16MB
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	7429-90-5	Aluminum	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	7440-47-3	Chromium	0.5	0.5	U
3050B	03/07/05	6010B	03/09/05	7440-50-8	Copper	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	2	U
3050B	03/07/05	6010B	03/09/05	7439-95-4	Magnesium	5	5	U
3050B	03/07/05	6010B	03/09/05	7439-96-5	Manganese	0.1	0.1	U
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	7440-02-0	Nickel	1	1	U
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-62-2	Vanadium	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HU16LCS
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Aluminum	6010B	212	200	106%	
Antimony	6010B	206	200	103%	
Arsenic	6010B	202	200	101%	
Beryllium	6010B	49.7	50.0	99.4%	
Cadmium	6010B	50.7	50.0	101%	
Chromium	6010B	49.3	50.0	98.6%	
Copper	6010B	49.8	50.0	99.6%	
Lead	6010B	200	200	100%	
Magnesium	6010B	1030	1000	103%	
Manganese	6010B	48.7	50.0	97.4%	
Mercury	7471A	1.05	1.00	105%	
Nickel	6010B	48	50	96.0%	
Selenium	6010B	202	200	101%	
Silver	6010B	49.7	50.0	99.4%	
Thallium	6010B	200	200	100%	
Vanadium	6010B	51.4	50.0	103%	
Zinc	6010B	48.0	50.0	96.0%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HU16MB
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/07/05	6010B	03/09/05	7429-90-5	Aluminum	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7440-36-0	Antimony	0.05	0.05	U
200.8	03/07/05	200.8	03/08/05	7440-38-2	Arsenic	0.0002	0.0002	U
3010A	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.001	0.001	U
3010A	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/07/05	6010B	03/09/05	7440-47-3	Chromium	0.005	0.005	U
200.8	03/07/05	200.8	03/08/05	7440-50-8	Copper	0.0005	0.0005	U
200.8	03/07/05	200.8	03/08/05	7439 92 1	Lead	0.001	0.001	U
3010A	03/07/05	6010B	03/09/05	7439-95-4	Magnesium	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7439-96-5	Manganese	0.001	0.001	U
7470A	03/07/05	7470A	03/07/05	7439-97-6	Mercury	0.0001	0.0001	U
200.8	03/07/05	200.8	03/08/05	7440-02-0	Nickel	0.0005	0.0005	U
3010A	03/07/05	6010B	03/09/05	7782-49-2	Selenium	0.05	0.05	U
200.8	03/07/05	200.8	03/08/05	7440-22-4	Silver	0.0002	0.0002	U
3010A	03/07/05	6010B	03/09/05	7440-28-0	Thallium	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7440-62-2	Vanadium	0.003	0.003	U
3010A	03/07/05	6010B	03/09/05	7440-66-6	Zinc	0.006	0.006	U

U-Analyte undetected at given RL
RL Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HU16LCS
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Aluminum	6010B	2.04	2.00	102%	
Antimony	6010B	2.10	2.00	105%	
Arsenic	200.8	0.0261	0.0250	104%	
Beryllium	6010B	0.500	0.500	100%	
Cadmium	6010B	0.509	0.500	102%	
Chromium	6010B	0.491	0.500	98.2%	
Copper	200.8	0.0268	0.0250	107%	
Lead	200.8	0.026	0.025	104%	
Magnesium	6010B	10.3	10.0	103%	
Manganese	6010B	0.484	0.500	96.8%	
Mercury	7470A	0.0020	0.0020	100%	
Nickel	200.8	0.0262	0.0250	105%	
Selenium	6010B	2.10	2.00	105%	
Silver	200.8	0.0259	0.0250	104%	
Thallium	6010B	2.04	2.00	102%	
Vanadium	6010B	0.522	0.500	104%	
Zinc	6010B	0.486	0.500	97.2%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

Total Solids

Volatile Total Solids
voats.wlf printed: 3/14/05

Worklist No: 4534

Data Analyst: Jean Alexander
Date Entered: 3/14/05
Comments:

Analyzed by. JA
Date Analyzed: 3/10/05

Sample No	Client ID/Client	Tare	Wet Wt	Dry Wt	%Solids
05-3971	HU16 A SY-P2-602A-1.5	1.33	7.78	7.50	95.66
05-3972	HU16 B SY-P2-602A-5	1.63	11.40	9.77	83.32
05-3973	HU16 C SY-P2-602A-10	1.33	14.83	10.84	70.44
05-3975	HU16 E SY-P2-601A-1.5	1.41	10.73	10.32	95.60
05-3976	HU16 F SY-P2-601A-5	1.44	11.14	10.72	95.67
05-3977	HU16 G SY-P2-601A-10	1.30	14.25	11.55	79.15

Worklist No: 1804

Total Solids
extts.wlf: 3/ 4/05

Data Analyst: Sean M. Laperle
Date Entered: 3/ 3/05
Comments:

Analyzed by: RAR
Date Analyzed: 3/ 4/05

** Use appropriate worklist to enter SRM Total Solids (see your SOPs) **

Sample	Client ID/Client	Tare	Wet Wt	Final Wt	%Solids	pH
1.	HU16A 05-3971 SY-P2-602A-1.5	0.80	12.28	11.98	97.4	6.3
2.	HU16B 05-3972 SY-P2-602A-5	0.81	11.55	10.96	94.5	7.3
3.	HU16C 05-3973 SY-P2-602A-10	0.80	10.94	9.14	82.2	7.4
4.	HU16E 05-3975 SY-P2-601A-1.5	0.81	10.86	10.58	97.2	7.6
5.	HU16F 05-3976 SY-P2-601A-5	0.81	12.52	12.04	95.9	7.7
6.	HU16G 05-3977 SY-P2-601A-10	0.81	11.39	9.26	79.9	7.1

Analyst/Date: _____

Data Entered/Distributed By: 3/4/05 RR

Solids Data Entry Report Checked by: lm Date: 3/08/05
Date: 03/08/05 Data Analyst: DM

Solids Determination performed on 03/07/05 by LM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
HU16	A	SY-P2-602A-1.5	0.959	10.069	9.824	97.31
HU16	B	SY-P2-602A-5	0.959	10.242	9.170	88.45
HU16	C	SY-P2-602A-10	0.962	10.347	8.579	81.16
HU16	E	SY-P2-601A-1.5	0.960	10.395	10.107	96.95
HU16	F	SY-P2-601A-5	0.961	10.250	9.853	95.73
HU16	G	SY-P2-601A-10	0.964	10.079	8.194	79.32

Laboratory Data Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU16

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 23, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HU76

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted sixteen water samples in good condition on March 7, 2005. The samples were received at a cooler temperature of 12.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, metals and Hexavalent chrome. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HU76

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

12°

ARI Assigned Number: A076	Turn-around Requested: STANDARD
ARI Client Company: EPI / BOEING	Phone:
Client Contact: Doug Konkel / Josh Berthal	
Client Project Name: PZOG - SOUTH YARD AREA	
Client Project #: 17505	Samplers: JB / TK

Page: 1 of 2

Date: 3/7/05 Ice Present?

No. of Coolers: Cooler Temps: 12°

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	8260 VOC VOCs	SVOC	PCB	Metals	Hex Chrom				Notes/Comments
SY-DP-05-15	3/7/05	0900	WATER	8	X	X	X		X				
SY-DP-05-15-F	3/7/05	0900	WATER	1				X					
SY-DP-04-15	3/7/05	1025	WATER	8	X	X	X		X				
SY-DP-04-15-F	3/7/05	1025	WATER	1				X					
SY-DP-03-15	3/7/05	1145	WATER	8	X	X	X		X				
SY-DP-03-15-F	3/7/05	1145	WATER	1				X					
SY-DP-03-15-1	3/7/05	1155	WATER	8	X	X	X	NO-98	X				
SY-DP-03-15-F-1	3/7/05	1155	WATER	1				X					
SY-DP-02-15	3/7/05	1315	WATER	8	X	X	X		X				
SY-DP-02-15-F	3/7/05	1315	WATER	1				X					

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by	Received by
Dist. TO DAN M.	(Signature) [signature]	(Signature) [signature]	(Signature) [signature]	(Signature) [signature]
	Printed Name: Josh Berthal	Printed Name: CHRIS KING	Printed Name: CHRIS KING	Printed Name: BRYAN R. BUSSEY
	Company: EPI	Company: GOLDER ASS	Company: GOLDER ASS	Company: ARI
	Date & Time: 3/7/05 17'5	Date & Time: 3/7/05 1715	Date & Time: 3/7/05 1715	Date & Time: 3/7/05 1744

000002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

12°

ARI Assigned Number:	Turn-around Requested: Standard
ARI Client Company: EPI / Boeing	Phone:
Client Contact: Doug Kunkel / Josh Bernthal	
Client Project Name: P2DG – South Yard Area	
Client Project #: 17505	Samplers: JB/TK

Page: 2	of 2
Date: 3/7/05	Ice Present?
No. of Coolers:	Cooler Temps: 12°

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOAs 8260 VOC	SVOA	PCB	Metals					Notes/Comments
SY-DP-06-15	3/7/05	1420	Water	7	X	X	X						
SY-DP-06-15-F	3/7/05	1420	Water	1				X					
SY-DP-08-15	3/7/05	1545	WATER	7	X	X	X						
SY-DP-08-15-F	3/7/05	1545	WATER	1				X					
SY-DP-07-15	3/7/05	1700	WATER	7	X	X	X						
SY-DP-07-15-F	3/7/05	1700	WATER					X					

Comments/Special Instructions	Relinquished by:	Received by	Relinquished by:	Received by
Dist. to DAN M.	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: Josh Bernthal	Printed Name: CHRIS KING	Printed Name: CHRIS KING	Printed Name: BRYAN R. BUSSEY
	Company: EPI	Company: GOLDER	Company: GOLDER	Company: ARI
	Date & Time: 3/7/05 17:15	Date & Time: 3/7/05 17:15	Date & Time: 3/7/05 17:42	Date & Time: 3/7/05 1744

000003

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HU76

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard ((17505))
ARI Job No.: HU76
March 23, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0. The samples were analyzed on 3/14/05, 3/15/05, and 3/16/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: Samples **SY-DP-05-15, SY-DP-04-15,** and **SY-DP-03-15-1** were analyzed at dilutions. There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The samples were extracted on 3/14/05 and were analyzed on 3/16/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The samples were extracted on 3/14/05 and were analyzed on 3/16/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The samples were extracted on 3/14/05 and were analyzed on 3/15/05 and 3/16/05 within the method recommended holding time.

Case Narrative
Project: Boeing P2DG-South Yard ((17505))
ARI Job No.: HU76
March 23, 2005

Surrogates: The method blank decachlorobiphenyl surrogate recovery was elevated. The reported column percent recovery was 151%, the second column surrogate recovery was 124%, and the tetrachlorometaxylene recovery was compliant, no corrective action was taken.

All other surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved Metals by Methods 6010 and 200.8

The samples were prepared on 3/10/05 and were analyzed between 3/14/05 and 3/16/05 within the method recommended holding times.

Method Blank(s): The method blank was free of element contamination.

Samples: No anomalies were encountered for these samples.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Hexavalent Chrome

The samples were analyzed on 3/7/05 within the method recommended 24 hour holding time.

Method Blank(s): The method blank was free of element contamination.

Samples: No anomalies were encountered for these samples.

SRM: All percent recoveries were within compliance.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HU76

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HU76

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
031505MB	Method Blank	104%	98.1%	89.9%	98.9%	0
HU76LCS	Lab Control	104%	102%	105%	96.3%	0
HU76LCD	LCDuplicate	100%	104%	99.8%	95.7%	0
HU76C	SY-DP-03-15	92.5%	93.8%	87.5%	92.0%	0
031605MB	Method Blank	91.0%	90.1%	81.2%	90.9%	0
HU76LCS	Lab Control	99.1%	105%	102%	96.5%	0
HU76LCD	LCDuplicate	95.0%	100%	97.9%	91.4%	0
HU76E	SY-DP-02-15	109%	108%	95.8%	105%	0
HU76F	SY-DP-06-15	88.5%	106%	93.5%	99.8%	0
HU76G	SY-DP-08-15	106%	104%	97.0%	105%	0
HU76H	SY-DP-07-15	98.8%	104%	95.5%	99.8%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

FORM-II VOA-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 15:47

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	98.1%
Bromofluorobenzene	89.9%
d4-1,2-Dichlorobenzene	98.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031605**
METHOD BLANK

Lab Sample ID: MB-031605
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/16/05 14:39

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate	Recovery
d4-1,2-Dichloroethane	91.0%
d8-Toluene	90.1%
Bromofluorobenzene	81.2%
d4-1,2-Dichlorobenzene	90.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 17:14

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**7.1**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**0.5**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.7**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.5%
d8-Toluene	93.8%
Bromofluorobenzene	87.5%
d4-1,2-Dichlorobenzene	92.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-02-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/16/05 15:13

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**10**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**8.6**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.0**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.8**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	109%
d8-Toluene	108%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	105%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 18:08

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.3**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	88.5%
d8-Toluene	106%
Bromofluorobenzene	93.5%
d4-1,2-Dichlorobenzene	99.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 18:36

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.4**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	104%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 19:03

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.8%
d8-Toluene	104%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	99.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031505**
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/15/05 15:15
LCSD: 03/15/05 16:26

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Bromomethane	4.0	4.0	100%	4.0	4.0	100%	0.0%
Vinyl Chloride	4.0	4.0	100%	4.1	4.0	102%	2.5%
Chloroethane	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Methylene Chloride	4.1	4.0	102%	4.1	4.0	102%	0.0%
Acetone	17.8	20.0	89.0%	18.1	20.0	90.5%	1.7%
Carbon Disulfide	4.4	4.0	110%	4.3	4.0	108%	2.3%
1,1-Dichloroethene	4.2	4.0	105%	4.2	4.0	105%	0.0%
1,1-Dichloroethane	4.1	4.0	102%	4.1	4.0	102%	0.0%
trans-1,2-Dichloroethene	4.1	4.0	102%	4.3	4.0	108%	4.8%
cis-1,2-Dichloroethene	4.3	4.0	108%	4.2	4.0	105%	2.4%
Chloroform	4.1	4.0	102%	4.1	4.0	102%	0.0%
1,2-Dichloroethane	4.3	4.0	108%	4.1	4.0	102%	4.8%
2-Butanone	18.6	20.0	93.0%	19.0	20.0	95.0%	2.1%
1,1,1-Trichloroethane	4.1	4.0	102%	4.3	4.0	108%	4.8%
Carbon Tetrachloride	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
Vinyl Acetate	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Bromodichloromethane	3.5	4.0	87.5%	3.4	4.0	85.0%	2.9%
1,2-Dichloropropane	4.2	4.0	105%	4.0	4.0	100%	4.9%
cis-1,3-Dichloropropene	4.0	4.0	100%	3.8	4.0	95.0%	5.1%
Trichloroethene	4.1	4.0	102%	4.0	4.0	100%	2.5%
Dibromochloromethane	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
1,1,2-Trichloroethane	3.8	4.0	95.0%	3.5	4.0	87.5%	8.2%
Benzene	4.3	4.0	108%	4.2	4.0	105%	2.4%
trans-1,3-Dichloropropene	4.0	4.0	100%	3.6	4.0	90.0%	10.5%
2-Chloroethylvinylether	4.0	4.0	100%	3.8	4.0	95.0%	5.1%
Bromoform	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	18.3	20.0	91.5%	16.8	20.0	84.0%	8.5%
2-Hexanone	17.9	20.0	89.5%	16.9	20.0	84.5%	5.7%
Tetrachloroethene	4.2	4.0	105%	4.2	4.0	105%	0.0%
1,1,2,2-Tetrachloroethane	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Toluene	4.3	4.0	108%	4.2	4.0	105%	2.4%
Chlorobenzene	4.3	4.0	108%	4.2	4.0	105%	2.4%
Ethylbenzene	4.7	4.0	118%	4.6	4.0	115%	2.2%
Styrene	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Trichlorofluoromethane	4.1	4.0	102%	4.3	4.0	108%	4.8%
1,1,2-Trichloro-1,2,2-trifl	4.2	4.0	105%	4.2	4.0	105%	0.0%
m,p-Xylene	9.1	8.0	114%	9.1	8.0	114%	0.0%
o-Xylene	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031505**
 LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4454
Matrix: Water
Date Analyzed: 03/15/05 15:15
LCSD: 03/15/05 16:26

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	104%	100%
d8-Toluene	102%	104%
Bromofluorobenzene	105%	99.8%
d4-1,2-Dichlorobenzene	96.3%	95.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031605**
LCS/LCSD

Lab Sample ID: LCS-031605
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/16/05 13:33
LCSD: 03/16/05 14:11

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.2	4.0	80.0%	3.3	4.0	82.5%	3.1%
Bromomethane	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
Vinyl Chloride	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
Chloroethane	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Methylene Chloride	4.0	4.0	100%	4.0	4.0	100%	0.0%
Acetone	16.8	20.0	84.0%	16.4	20.0	82.0%	2.4%
Carbon Disulfide	4.2	4.0	105%	4.1	4.0	102%	2.4%
1,1-Dichloroethene	4.0	4.0	100%	4.1	4.0	102%	2.5%
1,1-Dichloroethane	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans-1,2-Dichloroethene	4.1	4.0	102%	4.1	4.0	102%	0.0%
cis-1,2-Dichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
Chloroform	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,2-Dichloroethane	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
2-Butanone	16.4	20.0	82.0%	16.3	20.0	81.5%	0.6%
1,1,1-Trichloroethane	4.0	4.0	100%	4.0	4.0	100%	0.0%
Carbon Tetrachloride	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
Vinyl Acetate	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Bromodichloromethane	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
1,2-Dichloropropane	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
cis-1,3-Dichloropropene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Trichloroethene	4.0	4.0	100%	4.1	4.0	102%	2.5%
Dibromochloromethane	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
1,1,2-Trichloroethane	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
Benzene	4.1	4.0	102%	4.5	4.0	112%	9.3%
trans-1,3-Dichloropropene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
2-Chloroethylvinylether	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
Bromoform	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
4-Methyl-2-Pentanone (MIBK)	15.9	20.0	79.5%	16.3	20.0	81.5%	2.5%
2-Hexanone	16.4	20.0	82.0%	16.1	20.0	80.5%	1.8%
Tetrachloroethene	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1,2,2-Tetrachloroethane	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Toluene	4.1	4.0	102%	4.2	4.0	105%	2.4%
Chlorobenzene	4.2	4.0	105%	4.1	4.0	102%	2.4%
Ethylbenzene	4.8	4.0	120%	4.7	4.0	118%	2.1%
Styrene	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Trichlorofluoromethane	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,1,2-Trichloro-1,2,2-trifl	4.3	4.0	108%	4.1	4.0	102%	4.8%
m,p-Xylene	9.1	8.0	114%	9.0	8.0	112%	1.1%
o-Xylene	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031605**
 LCS/LCSD

Lab Sample ID: LCS-031605
LIMS ID: 05-4456
Matrix: Water
Date Analyzed: 03/16/05 13:33
LCSD: 03/16/05 14:11

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.1%	95.0%
d8-Toluene	105%	100%
Bromofluorobenzene	102%	97.9%
d4-1,2-Dichlorobenzene	96.5%	91.4%

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: HU76

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
031405MB	Method Blank	104%	95.9%	95.5%	91.0%	0
HU76LCS	Lab Cntrl Sample	103%	95.9%	97.0%	90.3%	0
HU76LCSD	Lab Cntrl Sample Dp	103%	95.5%	97.2%	93.0%	0
HU76A	SY-DP-05-15	104%	97.3%	95.5%	91.8%	0
HU76B	SY-DP-04-15	104%	97.5%	95.3%	93.2%	0
031505MB	Method Blank	103%	95.4%	94.0%	93.6%	0
HU76LCS	Lab Cntrl Sample	102%	95.8%	96.6%	89.6%	0
HU76LCSD	Lab Cntrl Sample Dp	102%	96.2%	98.6%	91.9%	0
HU76D	SY-DP-03-15-1	95.1%	92.7%	96.6%	90.7%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/14/05 12:43

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	95.9%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	91.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031505**
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/15/05 10:59

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	95.4%
Bromofluorobenzene	94.0%
d4-1,2-Dichlorobenzene	93.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/14/05 20:48

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**31**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	**trans-1,2-Dichloroethene**	**1.0**	**1.7**
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**8.3**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	97.3%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	91.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/14/05 21:14

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**28**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	**trans-1,2-Dichloroethene**	**1.0**	**1.4**
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**3.8**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	97.5%
Bromofluorobenzene	95.3%
d4-1,2-Dichlorobenzene	93.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/15/05 13:29

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**20**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	**1,1-Dichloroethane**	**1.0**	**1.4**
156-60-5	**trans-1,2-Dichloroethene**	**1.0**	**1.2**
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**2.0**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.1%
d8-Toluene	92.7%
Bromofluorobenzene	96.6%
d4-1,2-Dichlorobenzene	90.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031405**
 LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT3/PAB
LCSD: NT3/PAB
Date Analyzed LCS: 03/14/05 13:28
LCSD: 03/14/05 13:55

Sample Amount LCS: 5.00 mL
LCSD: 5.00 mL
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	33.9	50.0	67.8%	31.7	50.0	63.4%	6.7%
Bromomethane	44.6	50.0	89.2%	40.5	50.0	81.0%	9.6%
Vinyl Chloride	49.5	50.0	99.0%	44.2	50.0	88.4%	11.3%
Chloroethane	45.2	50.0	90.4%	42.3	50.0	84.6%	6.6%
Methylene Chloride	49.7	50.0	99.4%	45.6	50.0	91.2%	8.6%
Acetone	246	250	98.4%	228	250	91.2%	7.6%
Carbon Disulfide	53.8	50.0	108%	47.9	50.0	95.8%	11.6%
1,1-Dichloroethene	47.2	50.0	94.4%	44.0	50.0	88.0%	7.0%
1,1-Dichloroethane	47.3	50.0	94.6%	43.0	50.0	86.0%	9.5%
trans-1,2-Dichloroethene	48.7	50.0	97.4%	44.6	50.0	89.2%	8.8%
cis-1,2-Dichloroethene	49.8	50.0	99.6%	45.0	50.0	90.0%	10.1%
Chloroform	47.0	50.0	94.0%	43.3	50.0	86.6%	8.2%
1,2-Dichloroethane	45.9	50.0	91.8%	42.2	50.0	84.4%	8.4%
2-Butanone	234	250	93.6%	220	250	88.0%	6.2%
1,1,1-Trichloroethane	45.3	50.0	90.6%	44.5	50.0	89.0%	1.8%
Carbon Tetrachloride	50.9	50.0	102%	46.6	50.0	93.2%	8.8%
Vinyl Acetate	48.9	50.0	97.8%	44.7	50.0	89.4%	9.0%
Bromodichloromethane	47.3	50.0	94.6%	43.4	50.0	86.8%	8.6%
1,2-Dichloropropane	47.9	50.0	95.8%	44.6	50.0	89.2%	7.1%
cis-1,3-Dichloropropene	46.4	50.0	92.8%	43.6	50.0	87.2%	6.2%
Trichloroethene	47.5	50.0	95.0%	44.1	50.0	88.2%	7.4%
Dibromochloromethane	47.2	50.0	94.4%	43.8	50.0	87.6%	7.5%
1,1,2-Trichloroethane	46.9	50.0	93.8%	44.5	50.0	89.0%	5.3%
Benzene	47.9	50.0	95.8%	44.5	50.0	89.0%	7.4%
trans-1,3-Dichloropropene	46.0	50.0	92.0%	42.7	50.0	85.4%	7.4%
2-Chloroethylvinylether	31.5	50.0	63.0%	29.3	50.0	58.6%	7.2%
Bromoform	50.3	50.0	101%	47.5	50.0	95.0%	5.7%
4-Methyl-2-Pentanone (MIBK)	234	250	93.6%	222	250	88.8%	5.3%
2-Hexanone	224	250	89.6%	217	250	86.8%	3.2%
Tetrachloroethene	44.6	50.0	89.2%	42.2	50.0	84.4%	5.5%
1,1,2,2-Tetrachloroethane	48.7	50.0	97.4%	47.1	50.0	94.2%	3.3%
Toluene	47.1	50.0	94.2%	43.2	50.0	86.4%	8.6%
Chlorobenzene	47.2	50.0	94.4%	44.4	50.0	88.8%	6.1%
Ethylbenzene	45.9	50.0	91.8%	42.9	50.0	85.8%	6.8%
Styrene	42.9	50.0	85.8%	40.0	50.0	80.0%	7.0%
Trichlorofluoromethane	46.0	50.0	92.0%	42.8	50.0	85.6%	7.2%
1,1,2-Trichloro-1,2,2-trifl	50.6	50.0	101%	45.6	50.0	91.2%	10.4%
m,p-Xylene	89.7	100	89.7%	85.0	100	85.0%	5.4%
o-Xylene	44.1	50.0	88.2%	41.4	50.0	82.8%	6.3%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031405**
 LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4452
Matrix: Water
Date Analyzed: 03/14/05 13:28
LCSD: 03/14/05 13:55

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	103%	103%
d8-Toluene	95.9%	95.5%
Bromofluorobenzene	97.0%	97.2%
d4-1,2-Dichlorobenzene	90.3%	93.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT3/PAB
LCSD: NT3/PAB
Date Analyzed LCS: 03/15/05 10:07
LCSD: 03/15/05 10:33

Sample Amount LCS: 5.00 mL
LCSD: 5.00 mL
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	40.3	50.0	80.6%	42.9	50.0	85.8%	6.3%
Bromomethane	45.7	50.0	91.4%	49.1	50.0	98.2%	7.2%
Vinyl Chloride	53.2	50.0	106%	56.5	50.0	113%	6.0%
Chloroethane	45.2	50.0	90.4%	48.0	50.0	96.0%	6.0%
Methylene Chloride	46.5	50.0	93.0%	49.5	50.0	99.0%	6.2%
Acetone	216	250	86.4%	213	250	85.2%	1.4%
Carbon Disulfide	55.0	50.0	110%	55.0	50.0	110%	0.0%
1,1-Dichloroethene	45.3	50.0	90.6%	47.8	50.0	95.6%	5.4%
1,1-Dichloroethane	44.6	50.0	89.2%	47.8	50.0	95.6%	6.9%
trans-1,2-Dichloroethene	46.5	50.0	93.0%	48.6	50.0	97.2%	4.4%
cis-1,2-Dichloroethene	46.3	50.0	92.6%	49.3	50.0	98.6%	6.3%
Chloroform	44.3	50.0	88.6%	47.1	50.0	94.2%	6.1%
1,2-Dichloroethane	42.6	50.0	85.2%	45.0	50.0	90.0%	5.5%
2-Butanone	211	250	84.4%	211	250	84.4%	0.0%
1,1,1-Trichloroethane	44.3	50.0	88.6%	45.8	50.0	91.6%	3.3%
Carbon Tetrachloride	48.5	50.0	97.0%	52.1	50.0	104%	7.2%
Vinyl Acetate	42.9	50.0	85.8%	42.8	50.0	85.6%	0.2%
Bromodichloromethane	44.1	50.0	88.2%	46.9	50.0	93.8%	6.2%
1,2-Dichloropropane	44.8	50.0	89.6%	47.8	50.0	95.6%	6.5%
cis-1,3-Dichloropropene	42.8	50.0	85.6%	45.4	50.0	90.8%	5.9%
Trichloroethene	43.7	50.0	87.4%	47.2	50.0	94.4%	7.7%
Dibromochloromethane	42.4	50.0	84.8%	45.3	50.0	90.6%	6.6%
1,1,2-Trichloroethane	44.0	50.0	88.0%	46.8	50.0	93.6%	6.2%
Benzene	45.4	50.0	90.8%	47.9	50.0	95.8%	5.4%
trans-1,3-Dichloropropene	42.0	50.0	84.0%	45.5	50.0	91.0%	8.0%
2-Chloroethylvinylether	41.2	50.0	82.4%	42.3	50.0	84.6%	2.6%
Bromoform	45.2	50.0	90.4%	49.9	50.0	99.8%	9.9%
4-Methyl-2-Pentanone (MIBK)	210	250	84.0%	213	250	85.2%	1.4%
2-Hexanone	201	250	80.4%	200	250	80.0%	0.5%
Tetrachloroethene	42.2	50.0	84.4%	44.8	50.0	89.6%	6.0%
1,1,2,2-Tetrachloroethane	43.7	50.0	87.4%	47.0	50.0	94.0%	7.3%
Toluene	43.4	50.0	86.8%	46.0	50.0	92.0%	5.8%
Chlorobenzene	44.5	50.0	89.0%	47.0	50.0	94.0%	5.5%
Ethylbenzene	43.2	50.0	86.4%	45.5	50.0	91.0%	5.2%
Styrene	39.7	50.0	79.4%	42.7	50.0	85.4%	7.3%
Trichlorofluoromethane	47.2	50.0	94.4%	49.1	50.0	98.2%	3.9%
1,1,2-Trichloro-1,2,2-trif	50.1	50.0	100%	49.4	50.0	98.8%	1.4%
m,p-Xylene	83.9	100	83.9%	89.4	100	89.4%	6.3%
o-Xylene	40.4	50.0	80.8%	43.1	50.0	86.2%	6.5%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031505**
 LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4455
Matrix: Water
Date Analyzed: 03/15/05 10:07
LCSD: 03/15/05 10:33

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	102%
d8-Toluene	95.8%	96.2%
Bromofluorobenzene	96.6%	98.6%
d4-1,2-Dichlorobenzene	89.6%	91.9%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031405	87.2%	83.6%	100%	70.4%	84.3%	79.7%	94.7%	86.7%	0
LCS-031405	82.0%	78.0%	96.4%	70.8%	76.3%	72.8%	92.3%	77.6%	0
LCSD-031405	76.0%	74.4%	91.6%	60.8%	73.1%	70.4%	89.1%	73.9%	0
SY-DP-05-15	82.4%	80.0%	90.0%	73.2%	77.9%	76.0%	93.6%	82.7%	0
SY-DP-04-15	77.2%	73.2%	84.4%	65.2%	70.4%	69.3%	84.8%	76.3%	0
SY-DP-03-15	78.0%	76.0%	89.2%	67.6%	74.9%	71.5%	87.5%	79.5%	0
SY-DP-03-15-1	74.4%	72.8%	84.8%	62.4%	70.4%	68.3%	84.5%	73.9%	0
SY-DP-02-15	83.2%	82.0%	88.8%	73.2%	78.7%	75.5%	94.4%	82.1%	0
SY-DP-06-15	76.4%	74.4%	87.6%	67.2%	73.6%	70.7%	85.9%	75.7%	0
SY-DP-08-15	84.0%	81.6%	84.4%	74.0%	78.4%	75.2%	93.3%	82.1%	0
SY-DP-07-15	86.4%	84.4%	98.8%	75.2%	84.8%	80.5%	101%	86.4%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-4452 to 05-4459

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 08:57
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4452
Matrix: Water
Date Analyzed: 03/16/05 08:57

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	87.2%	2-Fluorobiphenyl	83.6%
d14-p-Terphenyl	100%	d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	84.3%	2-Fluorophenol	79.7%
2,4,6-Tribromophenol	94.7%	d4-2-Chlorophenol	86.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:19
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Date Analyzed: 03/16/05 13:19

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.4%	2-Fluorobiphenyl	80.0%
d14-p-Terphenyl	90.0%	d4-1,2-Dichlorobenzene	73.2%
d5-Phenol	77.9%	2-Fluorophenol	76.0%
2,4,6-Tribromophenol	93.6%	d4-2-Chlorophenol	82.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:52
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Date Analyzed: 03/16/05 13:52

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.2%	2-Fluorobiphenyl	73.2%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	70.4%	2-Fluorophenol	69.3%
2,4,6-Tribromophenol	84.8%	d4-2-Chlorophenol	76.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:25
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Date Analyzed: 03/16/05 14:25

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	76.0%
d14-p-Terphenyl	89.2%	d4-1,2-Dichlorobenzene	67.6%
d5-Phenol	74.9%	2-Fluorophenol	71.5%
2,4,6-Tribromophenol	87.5%	d4-2-Chlorophenol	79.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:58
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Date Analyzed: 03/16/05 14:58

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.4%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	84.8%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	70.4%	2-Fluorophenol	68.3%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	73.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:31
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Date Analyzed: 03/16/05 15:31

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	83.2%	2-Fluorobiphenyl	82.0%
d14-p-Terphenyl	88.8%	d4-1,2-Dichlorobenzene	73.2%
d5-Phenol	78.7%	2-Fluorophenol	75.5%
2,4,6-Tribromophenol	94.4%	d4-2-Chlorophenol	82.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:04
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Date Analyzed: 03/16/05 16:04

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.4%	2-Fluorobiphenyl	74.4%
d14-p-Terphenyl	87.6%	d4-1,2-Dichlorobenzene	67.2%
d5-Phenol	73.6%	2-Fluorophenol	70.7%
2,4,6-Tribromophenol	85.9%	d4-2-Chlorophenol	75.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:37
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Date Analyzed: 03/16/05 16:37

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in $\mu g/L$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	84.0%	2-Fluorobiphenyl	81.6%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	74.0%
d5-Phenol	78.4%	2-Fluorophenol	75.2%
2,4,6-Tribromophenol	93.3%	d4-2-Chlorophenol	82.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 17:10
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Date Analyzed: 03/16/05 17:10

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	86.4%	2-Fluorobiphenyl	84.4%
d14-p-Terphenyl	98.8%	d4-1,2-Dichlorobenzene	75.2%
d5-Phenol	84.8%	2-Fluorophenol	80.5%
2,4,6-Tribromophenol	101%	d4-2-Chlorophenol	86.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031405
LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted LCS/LCSD: 03/14/05

Date Analyzed LCS: 03/16/05 09:30
LCSD: 03/16/05 10:02
Instrument/Analyst LCS: NT4/Van
LCSD: NT4/Van
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	26.4	37.5	70.4%	26.8	37.5	71.5%	1.5%
2-Chlorophenol	28.2	37.5	75.2%	27.6	37.5	73.6%	2.2%
1,4-Dichlorobenzene	14.0	25.0	56.0%	14.6	25.0	58.4%	4.2%
N-Nitroso-Di-N-Propylamine	19.5	25.0	78.0%	19.7	25.0	78.8%	1.0%
1,2,4-Trichlorobenzene	15.0	25.0	60.0%	15.6	25.0	62.4%	3.9%
4-Chloro-3-methylphenol	32.6	37.5	86.9%	32.8	37.5	87.5%	0.6%
Acenaphthene	20.0	25.0	80.0%	19.7	25.0	78.8%	1.5%
4-Nitrophenol	36.3	37.5	96.8%	40.0	37.5	107%	9.7%
2,4-Dinitrotoluene	22.1	25.0	88.4%	22.0	25.0	88.0%	0.5%
Pentachlorophenol	28.7	37.5	76.5%	30.1	37.5	80.3%	4.8%
Phenanthrene	2.8	3.0	93.3%	2.8	3.0	93.3%	0.7%
Pyrene	22.2	25.0	88.8%	22.0	25.0	88.0%	0.9%
Chrysene	2.9	3.0	96.7%	3.0	3.0	100%	3.0%
Benzo(k)fluoranthene	2.7	3.0	90.0%	2.7	3.0	90.0%	1.9%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	82.0%	76.0%
2-Fluorobiphenyl	78.0%	74.4%
d14-p-Terphenyl	96.4%	91.6%
d4-1,2-Dichlorobenzene	70.8%	60.8%
d5-Phenol	76.3%	73.1%
2-Fluorophenol	72.8%	70.4%
2,4,6-Tribromophenol	92.3%	89.1%
d4-2-Chlorophenol	77.6%	73.9%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	MNP	DBA	TOT OUT
MB-031405	81.3%	122%	0
LCS-031405	86.3%	122%	0
LCSD-031405	74.3%	114%	0
SY-DP-05-15	74.3%	88.0%	0
SY-DP-04-15	87.7%	94.3%	0
SY-DP-03-15	82.0%	97.0%	0
SY-DP-03-15-1	88.3%	99.7%	0
SY-DP-02-15	84.3%	93.7%	0
SY-DP-06-15	86.3%	101%	0
SY-DP-08-15	78.7%	59.0%	0
SY-DP-07-15	75.3%	106%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-4452 to 05-4459

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 11:41
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	81.3%
d14-Dibenzo(a,h)anthracene	122%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:00
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	74.3%
d14-Dibenzo(a,h)anthracene	88.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:25
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	87.7%
d14-Dibenzo(a,h)anthracene	94.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:50
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	82.0%
d14-Dibenzo(a,h)anthracene	97.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:15
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	88.3%
d14-Dibenzo(a,h)anthracene	99.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:40
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	84.3%
d14-Dibenzo(a,h)anthracene	93.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:06
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	86.3%
d14-Dibenzo(a,h)anthracene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:31
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	78.7%
d14-Dibenzo(a,h)anthracene	59.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:56
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	75.3%
d14-Dibenzo(a,h)anthracene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-031405
LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted LCS/LCSD: 03/14/05

Date Analyzed LCS: 03/16/05 12:07
LCSD: 03/16/05 12:35
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.79	3.00	93.0%	2.78	3.00	92.7%	0.4%
Chrysene	2.91	3.00	97.0%	2.71	3.00	90.3%	7.1%
Benzo(k)fluoranthene	2.55	3.00	85.0%	2.59	3.00	86.3%	1.6%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	86.3%	74.3%
d14-Dibenzo(a,h)anthracene	122%	114%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	DCBP	TCMX	TOT OUT
MB-031405	151%*	102%	1
LCS-031405	105%	80.2%	0
LCSD-031405	99.2%	84.2%	0
SY-DP-05-15	90.5%	77.2%	0
SY-DP-04-15	77.8%	76.8%	0
SY-DP-03-15	71.2%	78.2%	0
SY-DP-03-15-1	76.2%	81.2%	0
SY-DP-02-15	111%	80.8%	0
SY-DP-06-15	89.5%	74.0%	0
SY-DP-08-15	60.8%	48.5%	0
SY-DP-07-15	49.8%	69.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-4452 to 05-4459

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/14/05
Date Analyzed: 03/15/05 23:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	151%
Tetrachlorometaxylene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 00:25
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.5%
Tetrachlorometaxylene	77.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 00:42
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.8%
Tetrachlorometaxylene	76.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 00:59
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	71.2%
Tetrachlorometaxylene	78.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 01:16
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.2%
Tetrachlorometaxylene	81.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 01:33
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	80.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 01:50
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	74.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:07
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	60.8%
Tetrachlorometaxylene	48.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:24
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	49.8%
Tetrachlorometaxylene	69.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-031405
LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/14/05

Date Analyzed LCS: 03/15/05 23:52
LCSD: 03/16/05 00:09
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.50	5.12	87.9%	4.61	5.12	90.0%	2.4%
Aroclor 1260	4.88	5.12	95.3%	5.16	5.12	101%	5.6%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	105%	99.2%
Tetrachlorometaxylene	80.2%	84.2%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

DISSOLVED METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-05-15-F
SAMPLE

Lab Sample ID: HU76I
LIMS ID: 05-4460
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**75.4**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
6010B	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	**4,590**	
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**1.7**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**8**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**23**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-04-15-F
SAMPLE

Lab Sample ID: HU76J
LIMS ID: 05-4461
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**86.6**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
6010B	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	**6,930**	
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**2.2**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**6**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**24**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-03-15-F
SAMPLE

Lab Sample ID: HU76K
LIMS ID: 05-4462
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**82.8**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
6010B	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	**2,310**	
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/10/05	6010B	03/14/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-DP-03-15-F-1
SAMPLE

Lab Sample ID: HU76L
LIMS ID: 05-4463
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**82.1**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
6010B	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	**2,300**	
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/10/05	6010B	03/14/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-02-15-F
SAMPLE

Lab Sample ID: HU76M
LIMS ID: 05-4464
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**67.0**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
6010B	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	**4,300**	
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**2.1**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**7**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**20**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-06-15-F
SAMPLE

Lab Sample ID: HU76N
LIMS ID: 05-4465
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/16/05	**7440-38-2**	**Arsenic**	0.2	**7.6**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/16/05	7439-92-1	Lead	1	1	U
ERROR	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	852	
200.8	03/10/05	200.8	03/16/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/16/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	7440-62-2	Vanadium	3	3	U
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	8	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-08-15-F
SAMPLE

Lab Sample ID: HU76O
LIMS ID: 05-4466
Matrix: Water
Data Release Authorized
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/16/05	**7440-38-2**	**Arsenic**	0.2	**3.4**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/16/05	7439-92-1	Lead	1	1	U
ERROR	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	**673**	
200.8	03/10/05	200.8	03/16/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/16/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**7**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**7**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-07-15-F
SAMPLE

Lab Sample ID: HU76P
LIMS ID: 05-4467
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/16/05	**7440-38-2**	**Arsenic**	0.2	**8.2**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/16/05	7439-92-1	Lead	1	1	U
ERROR	03/10/05	6010B	03/14/05	**7439-96-5**	**Manganese**	1	**903**	
200.8	03/10/05	200.8	03/16/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/16/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**8**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HU76MB
LIMS ID: 05-4460
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
6010B	03/10/05	6010B	03/14/05	7439-96-5	Manganese	1	1	U
200.8	03/10/05	200.8	03/15/05	7440-02-0	Nickel	0.5	0.5	U
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	7440-62-2	Vanadium	3	3	U
6010B	03/10/05	6010B	03/14/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: LAB CONTROL

Lab Sample ID: HU76LCS
LIMS ID: 05-4460
Matrix: Water
Data Release Authorized
Reported: 06/13/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2070	2000	104%	
Arsenic	200.8	26.6	25.0	106%	
Beryllium	6010B	521	500	104%	
Cadmium	6010B	539	500	108%	
Chromium	6010B	509	500	102%	
Copper	200.8	26.8	25.0	107%	
Lead	200.8	26	25	104%	
Manganese	6010B	503	500	101%	
Nickel	200.8	27.0	25.0	108%	
Selenium	6010B	2300	2000	115%	
Silver	200.8	25.8	25.0	103%	
Thallium	6010B	2110	2000	106%	
Vanadium	6010B	523	500	105%	
Zinc	6010B	516	500	103%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ar
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-05-15
ARI ID: 05-4452 HU76A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ar
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-04-15
ARI ID: 05-4453 HU76B

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-03-15
ARI ID: 05-4454 HU76C

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-03-15-1
ARI ID: 05-4455 HU76D

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-02-15
ARI ID: 05-4456 HU76E

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/07/05	mg/L	< 0.010 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: OKP
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/07/05	mg/L	0.564	0.560	100.7%

LOW LEVEL MERCURY

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0364

ARI Client: The Boeing Company
ARI Project ID: HU76

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-DP-05-15-F	3/7/2005	05BR0364 - 1	3/8/05
SY-DP-04-15-F	3/7/2005	05BR0364 - 2	3/8/05
SY-DP-03-15-F	3/7/2005	05BR0364 - 3	3/8/05
SY-DP-03-15-F-1	3/7/2005	05BR0364 - 4	3/8/05
SY-DP-02-15-F	3/7/2005	05BR0364 - 5	3/8/05
SY-DP-06-15-F	3/7/2005	05BR0364 - 6	3/8/05
SY-DP-06-15-F	3/7/2005	05BR0364 - 7	3/8/05
SY-DP-07-15-F	3/7/2005	05BR0364 - 8	3/8/05

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0364

ARI Client: The Boeing Company
ARI Project ID: HU76

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-DP-05-15-F	05BR0364 - 1	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-04-15-F	05BR0364 - 2	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-03-15-F	05BR0364 - 3	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-03-15-F-1	05BR0364 - 4	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-02-15-F	05BR0364 - 5	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-06-15-F	05BR0364 - 6	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-08-15-F	05BR0364 - 7	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-07-15-F	05BR0364 - 8	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0132
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0336, 05BR0347, 05BR0349, 05BR0357, 05BR0358, 05BR0359 & 05BR0364
Project:	ARI004, MOU002, ADS001, DWQ002, SHA002& MEL002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 14, 2005
Calibration Date:	Match 14, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.15.05

Tressa R. Pearson-Franks
Quality Assurance Associate

000098

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 25, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (013-1646-002.200)
ARI Job No: HU77

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted twenty-one soil samples, one water sample and a trip blank in good condition on March 7, 2005. The samples were received at a cooler temperature of 3.0°C.

As requested, the samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, total priority pollutant metals, and Hexavalent chrome.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU77

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HU77	Turn-around Requested:
ARI Client Company: GOLDER ASSOCIATES	Phone: 425-883-0777
Client Contact: TED NORTON	
Client Project Name: P2DG - SOUTH YARD AREA	
Client Project #: 013-1646-002-200	Samplers: C. KING

Page: 1	of 3
Date: 3/7/05	Ice Present?
No. of Coolers:	Cooler Temps: 3 9

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs (8260B)	SVOCs (8270C) Simm	PCB (8082)	Priority Pollutant Metals 200.8/6010/7000 Series	Chromium VI (7196)				Notes/Comments
DP-SY-2-1	3/7/05	8:00am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 0-1 ft.
DP-SY-2-5	3/7/05	8:15am	Soil	5	✓	✓	✓	✓	✓				Sampling Interval 4-5' + 1 MS + 1 MSD for Hex Chrome
DP-SY-2-10	3/7/05	12:57pm	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 9-10'
DP-SY-3-1	3/7/05	11:02am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 0-1 ft
DP-SY-3-5	3/7/05	11:08am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 4-5 ft.
DP-SY-3-10	3/7/05	11:14am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 9-10 ft
DP-SY-4-1	3/7/05	9:45am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 0-1 ft.
DP-SY-4-5	3/7/05	9:50am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 4-5 ft.
DP-SY-4-10	3/7/05	9:55am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 9-10 ft.
DP-SY-4-10EB	3/7/05	10:00am	Water	1					✓				Hex. Chrome Equipment Blank

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Distribute to Dan M.	Printed Name: CHRIS KING	Printed Name: BRYAN R. BUSSEY	Printed Name:	Printed Name:
	Company: Golder Ass.	Company: ARI	Company:	Company:
	Date & Time: 3/7/05 17:45	Date & Time: 3/7/05 1745	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested:
ARI Client Company: GOLDER ASSOCIATES	Phone: 425-883-0777
Client Contact: TED NORTON	
Client Project Name: P2DG SOUTH YARD AREA	
Client Project #: 013-1646-002.200	Samplers: CSK

Page 2 of 3

Date: 3/7/05 | Ice Present?

No. of Coolers: | Cooler Temps: 3°

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs (8260B)	SVOCs (8270C) SIM	PCBs (8082)	Priority Pollutant Metals (200.8/6010/7000 Series)	Chromium VI (7196)				Notes/Comments
DP-SY-5-1	3/7/05	8:10 am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 0-1 ft
DP-SY-5-5	3/7/05	8:19 am	Soil	3	✓	✓	✓	✓	✓				Samp. Int. 4-5 ft.
DP-SY-5-10	3/7/05	8:28 am	Soil	3	✓	✓	✓	✓	✓				Samp. Int. 9-10 ft.
DP-SY-6-1	3/7/05	8:52 am	Soil	2	✓	✓	✓	✓					
DP-SY-6-5	3/7/05	9:03 am	Soil	2	✓	✓	✓	✓					
DP-SY-6-10	3/7/05	1:52 pm	Soil	4	✓	✓	✓	✓					Samp. Int. 9-10 ft. + 1 MS + 1 MSD for VOCs
DP-SY-7-1	3/7/05	8:37 am	Soil	2	✓	✓	✓	✓					Samp. Int 0-1 ft
DP-SY-7-5	3/7/05	8:48 am	Soil	2	✓	✓	✓	✓					Samp Int. 4-5 ft
DP-SY-7-10	3/7/05	4:35 pm	Soil	2	✓	✓	✓	✓					
DP-SY-8-1	3/7/05	9:09 am	Soil	2	✓	✓	✓	✓					Samp. Int. 0-1 ft

000003

Comments/Special Instructions	Relinquished by:	Received by	Relinquished by:	Received by
Dist. to Dan M	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: CHRIS KING	Printed Name: BRYAN R. BUSSEY	Printed Name:	Printed Name
	Company: GOLDER ASS.	Company: ARI	Company:	Company:
	Date & Time: 3/7/05 17:45	Date & Time: 3/7/05 1745	Date & Time:	Date & Time.

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested:
ARI Client Company: GOLDER ASSOCIATES	Phone: 425-883-0777
Client Contact: TED NORTON	
Client Project Name: PZDG - SOUTH YARD AREA	
Client Project #: 013-1646-002-200	Samplers: CSK

Page: 3 of 3

Date: 3/7/05 | Ice Present?

No. of Coolers: | Cooler Temps: 3°

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs (8260B)	SVOCs (8270C)	PCBs (8082)	Priority Pollutant Metals 200.8/ 3500Cr B/7000 Series					Notes/Comments
DP-SY-8-5	3/7/05	9:20 am	Soil	2	✓	✓	✓	✓					Samp Int. 4-5 ft
DP-SY-8-10	3/7/05	3:02 pm	Soil	2	✓	✓	✓	✓					Samp Int 9-10 ft

000004

Comments/Special Instructions	Relinquished by: (Signature)	Received by (Signature)	Relinquished by: (Signature)	Received by (Signature)
Distribute to Dan M.	Printed Name: CHRIS KING	Printed Name: Bryan R. Bussey	Printed Name:	Printed Name:
	Company: GOLDER ASS	Company: ARI	Company:	Company:
	Date & Time: 3/7/05 17:45	Date & Time: 3/7/05 1745	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU77

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HU77
March 25, 2005

Volatile Organics by Method 8260B:

The samples were analyzed between 3/14/05 and 3/17/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: The area of the 4th internal standard (IS) was out of control in sample **DP-SY-8-5.** The sample was re-analyzed with similar IS results. No further corrective action was taken.

There were no other anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-6-10**. The percent recoveries for vinyl acetate and trichlorofluoromethane are outside the advisory 50% - 150% limits. No corrective action was taken. All other percent recoveries and RPDs were in control.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The soil samples were screened prior to extraction on 3/15/05. The samples were analyzed between 3/18/05 and 3/23/05 within the method recommended holding time.

Surrogates: The 2-fluorophenol (2FB) surrogate recoveries are low in samples **DP-SY-5-5, DP-SY-5-10,** and **DP-SY-8-10.** As the method allows one acid and one basic surrogate to be out of compliance, no corrective action was taken. All other surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: The perylene internal standard was out of compliance in the initial analysis of sample **DP-SY-7-5.** The sample was re-analyzed with a similar internal standard recovery. No further corrective action was taken.

There were no other anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-3-1**. All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): The 2,4-dinitrotoluene RPD is above the 40% limit in the **3/21/05 LCS/LCSD**. As the individual percent recoveries were compliant, no corrective action was taken. All other percent recoveries and RPDs for the analytes of interest were within compliance.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HU77
March 25, 2005

SIM PNA by Method 8270C-SIM:

The soil samples were screened prior to extraction on 3/15/05. The samples were analyzed between 3/16/05 and 3/22/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: Several samples had suppressed d12-perylene internal standards (IS). The samples were re-analyzed several times with similar IS results. Also, the suppression caused the d14-dibenz(ah)anthracene IS to have poor surrogate recoveries. The analyst requanted the data using d12-chrysene as the internal standard instead of the d12-perylene resulting in compliant surrogates and IS's.

There were no other anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-3-1**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The soil samples were screened prior to extraction on 3/15/05. The samples were analyzed on 3/17/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: Aroclor 1260 is "J" flagged in samples **DP-SY-3-10** and **DP-SY-6-1.** The "J" indicates an estimated concentration when the value is less than ARI's established reporting limit.

There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-5-1**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs were within compliance.

Total Metals by Methods 6010 and 7471

The samples were prepared on 3/16/05 and were analyzed between 3/17/05 and 3/18/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of the element contamination.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HU77
March 25, 2005

Samples: No anomalies were encountered for these samples.

Matrix Spike: A matrix spike was analyzed in association with samples **DP-SY-2-1** and **DP-SY-8-10**. The percent recoveries for antimony were low in both MS's. The percent recovery for antimony was recovered within the established advisory range for the corresponding LCS. Since it is expected and documented that antimony is not recovered adequately in the sediment or solid matrix using prep method 3050B, no corrective actions were taken based on the antimony recovery in the MS. If antimony is a metal of particular concern, an alternative and stronger preparation would be recommended for this element only.

The aluminum percent recoveries were out of control in the MS associated with both samples due to the large amount of aluminum present in the native samples in relation to the amount of spike added. No corrective action was taken.

The chromium percent recovery was 147% in the MS associated with sample **DP-SY-2-1**. A post spike was performed for chromium where the recovery was 93%. The first recovery is reported. No further corrective action was taken.

Matrix Duplicate: The matrix duplicate was analyzed in association with samples **DP-SY-2-1** and **DP-SY-8-10**. The RPDs for cadmium, and mercury were out of the 20% control limit in the MD associated with sample **DP-SY-2-1** due to sample heterogeneity. No corrective action was taken.

All RPDs associated with sample **DP-SY-8-10** were in control.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Hexavalent Chrome

The samples were analyzed on 3/7/05 and 3/11/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of the element contamination.

Samples: No anomalies were encountered for these samples.

SRM/Replicate/MS/MSD(s): All percent recoveries were within compliance.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU77

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

SW8260 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCE	TOL	BFB	DCB	TOT OUT
MB-031405	75.1%	94.5%	89.7%	90.6%	0
LCS-031405	77.3%	97.1%	93.6%	89.1%	0
LCSD-031405	78.3%	96.5%	94.2%	91.0%	0
DP-SY-2-1	83.7%	103%	96.5%	92.5%	0
DP-SY-2-5	80.4%	102%	91.9%	91.6%	0
DP-SY-2-10	76.1%	96.4%	87.5%	91.5%	0
DP-SY-3-1	82.4%	102%	93.9%	93.3%	0
DP-SY-3-5	83.2%	100%	92.2%	94.2%	0
DP-SY-3-10	79.3%	99.4%	87.9%	92.1%	0
DP-SY-4-1	77.4%	97.1%	94.8%	92.6%	0
DP-SY-4-5	82.3%	101%	93.2%	91.6%	0
DP-SY-4-10	74.8%	98.9%	89.4%	91.9%	0
DP-SY-5-1	91.5%	99.0%	89.9%	92.2%	0
DP-SY-5-5	122%	106%	102%	99.0%	0
DP-SY-5-10	121%	107%	96.5%	103%	0
DP-SY-6-1	126%	108%	104%	101%	0
DP-SY-6-5	125%	109%	102%	104%	0
MB-031605	117%	110%	107%	104%	0
LCS-031605	108%	111%	109%	107%	0
LCSD-031605	109%	107%	111%	105%	0
DP-SY-6-10	127%	107%	97.6%	104%	0
DP-SY-6-10 MS	115%	109%	100%	102%	0
DP-SY-6-10 MSD	115%	113%	101%	103%	0
DP-SY-7-1	131%	112%	104%	101%	0
DP-SY-7-5	132%	113%	106%	103%	0
DP-SY-7-10	129%	115%	107%	103%	0
DP-SY-8-1	132%	109%	106%	101%	0
MB-031705	114%	106%	108%	104%	0
LCS-031705	120%	111%	109%	105%	0
LCSD-031705	119%	111%	112%	105%	0
DP-SY-8-5	126%	111%	95.1%	105%	0
DP-SY-8-5 RE	126%	109%	94.6%	103%	0
DP-SY-8-10	122%	111%	106%	100%	0

	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(74-128)	(71-143)
(TOL) = d8-Toluene	(76-119)	(79-118)
(BFB) = Bromofluorobenzene	(78-116)	(69-126)
(DCB) = d4-1,2-Dichlorobenzene	(78-122)	(79-119)

Prep Method: SW5030
Analytical Method: SW8260B
Log Number Range: 05-4468 to 05-4489

FORM-II SW8260

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL QC Report No: HU77

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
HU77W	TRIP BLANK	119%	107%	110%	103%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

FORM-II VOA-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 13:32

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.1%
d8-Toluene	94.5%
Bromofluorobenzene	89.7%
d4-1,2-Dichlorobenzene	90.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-031605
METHOD BLANK

Lab Sample ID: MB-031605
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 12:11

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	110%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: MB-031705
METHOD BLANK

Lab Sample ID: MB-031705
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 13:48

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	106%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 18:24

Sample Amount: 4.26 g-dry-wt
Percent Moisture: 15.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	Acetone	5.9	< 5.9 U
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	2-Butanone	5.9	< 5.9 U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	5.9	< 5.9 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	**Trichloroethene**	**1.2**	**2.0**
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	5.9	< 5.9 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.9	< 5.9 U
591-78-6	2-Hexanone	5.9	< 5.9 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.7%
d8-Toluene	103%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	92.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 18:51

Sample Amount: 4.82 g-dry-wt
Percent Moisture: 6.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.2	< 5.2 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	80.4%
d8-Toluene	102%
Bromofluorobenzene	91.9%
d4-1,2-Dichlorobenzene	91.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 19:17

Sample Amount: 5.08 g-dry-wt
Percent Moisture: 6.2%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**4.9**	**47**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**2.5**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	**2-Butanone**	**4.9**	**13**
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	4.9	< 4.9 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	4.9	< 4.9 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	< 4.9 U
591-78-6	2-Hexanone	4.9	< 4.9 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	76.1%
d8-Toluene	96.4%
Bromofluorobenzene	87.5%
d4-1,2-Dichlorobenzene	91.5%

00002C

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 19:43

Sample Amount: 3.89 g-dry-wt
Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	Acetone	6.4	< 6.4 U
75-15-0	Carbon Disulfide	1.3	< 1.3 U
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	2-Butanone	6.4	< 6.4 U
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.4	< 6.4 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	**Trichloroethene**	**1.3**	**1.6**
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.4	< 6.4 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.4	< 6.4 U
591-78-6	2-Hexanone	6.4	< 6.4 U
127-18-4	**Tetrachloroethene**	**1.3**	**2.7**
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1 3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	82.4%
d8-Toluene	102%
Bromofluorobenzene	93.9%
d4-1,2-Dichlorobenzene	93.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 20:10

Sample Amount: 4.75 g-dry-wt
Percent Moisture: 5.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.3	< 5.3 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.3	< 5.3 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.3	< 5.3 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**4.5**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.3	< 5.3 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3	< 5.3 U
591-78-6	2-Hexanone	5.3	< 5.3 U
127-18-4	**Tetrachloroethene**	**1.1**	**3.6**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.2%
d8-Toluene	100%
Bromofluorobenzene	92.2%
d4-1,2-Dichlorobenzene	94.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 20:36

Sample Amount: 4.88 g-dry-wt
Percent Moisture: 9.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**9.5**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.1**	**26**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	**2-Butanone**	**5.1**	**6.2**
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.1	< 5.1 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**1.7**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.1	< 5.1 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.1	< 5.1 U
591-78-6	2-Hexanone	5.1	< 5.1 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	79.3%
d8-Toluene	99.4%
Bromofluorobenzene	87.9%
d4-1,2-Dichlorobenzene	92.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-4-1**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
011-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 21:02

Sample Amount: 5.03 g-dry-wt
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	**Tetrachloroethene**	**1.0**	**1.1**
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	77.4%
d8-Toluene	97.1%
Bromofluorobenzene	94.8%
d4-1,2-Dichlorobenzene	92.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-4-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 21:28

Sample Amount: 4.79 g-dry-wt
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.2	< 5.2 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	**Tetrachloroethene**	**1.0**	**1.7**
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	82.3%
d8-Toluene	101%
Bromofluorobenzene	93.2%
d4-1,2-Dichlorobenzene	91.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 21:54

Sample Amount: 3.69 g-dry-wt
Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	**Vinyl Chloride**	**1.4**	**6.5**
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.7	< 2.7 U
67-64-1	**Acetone**	**6.8**	**34**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**6.8**	**9.3**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	6.8	< 6.8 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	6.8	< 6.8 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.8	< 6.8 U
591-78-6	2-Hexanone	6.8	< 6.8 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.7	< 2.7 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	74.8%
d8-Toluene	98.9%
Bromofluorobenzene	89.4%
d4-1,2-Dichlorobenzene	91.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 22:20

Sample Amount: 4.91 g-dry-wt
Percent Moisture: 7.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	**Methylene Chloride**	**2.0**	**5.7**
67-64-1	Acetone	5.1	< 5.1 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.1	< 5.1 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.1	< 5.1 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**3.7**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.1	< 5.1 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.1	< 5.1 U
591-78-6	2-Hexanone	5.1	< 5.1 U
127-18-4	**Tetrachloroethene**	**1.0**	**110**
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.5%
d8-Toluene	99.0%
Bromofluorobenzene	89.9%
d4-1,2-Dichlorobenzene	92.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 14:52

Sample Amount: 4.10 g-dry-wt
Percent Moisture: 20.1%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.4	< 2.4 U
67-64-1	Acetone	6.1	< 6.1 U
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	2-Butanone	6.1	< 6.1 U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.1	< 6.1 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	**Trichloroethene**	**1.2**	**4.5**
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.1	< 6.1 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.1	< 6.1 U
591-78-6	2-Hexanone	6.1	< 6.1 U
127-18-4	**Tetrachloroethene**	**1.2**	**46**
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.4	< 2.4 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	106%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	99.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 15:20

Sample Amount: 3.85 g-dry-wt
Percent Moisture: 26.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	**Vinyl Chloride**	**1.3**	**11**
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	**Acetone**	**6.5**	**110**
75-15-0	**Carbon Disulfide**	**1.3**	**1.4**
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	**trans-1,2-Dichloroethene**	**1.3**	**1.9**
156-59-2	**cis-1,2-Dichloroethene**	**1.3**	**48**
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	**2-Butanone**	**6.5**	**19**
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.5	< 6.5 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	**Trichloroethene**	**1.3**	**19**
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.5	< 6.5 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.5	< 6.5 U
591-78-6	2-Hexanone	6.5	< 6.5 U
127-18-4	**Tetrachloroethene**	**1.3**	**57**
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	121%
d8-Toluene	107%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 15:48

Sample Amount: 4.58 g-dry-wt
Percent Moisture: 11.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	**Acetone**	**5.5**	**9.0**
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.5	< 5.5 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.5	< 5.5 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5 U
591-78-6	2-Hexanone	5.5	< 5.5 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	108%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	101%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 16:19

Sample Amount: 4.14 g-dry-wt
Percent Moisture: 21.9%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.4	< 2.4 U
67-64-1	Acetone	6.0	< 6.0 U
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	2-Butanone	6.0	< 6.0 U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.0	< 6.0 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	Trichloroethene	1.2	< 1.2 U
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.0	< 6.0 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.0	< 6.0 U
591-78-6	2-Hexanone	6.0	< 6.0 U
127-18-4	**Tetrachloroethene**	**1.2**	**3.4**
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.4	< 2.4 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	109%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-6-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 16:43

Sample Amount: 3.51 g-dry-wt
Percent Moisture: 33.5%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	Vinyl Chloride	1.4	< 1.4 U
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.8	< 2.8 U
67-64-1	**Acetone**	**7.1**	**74**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**7.1**	**13**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	7.1	< 7.1 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	7.1	< 7.1 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.1	< 7.1 U
591-78-6	2-Hexanone	7.1	< 7.1 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.8	< 2.8 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	107%
Bromofluorobenzene	97.6%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-6-10
MATRIX SPIKE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 17:11

Sample Amount: 3.46 g-dry-wt
Percent Moisture: 33.5%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	---
74-83-9	Bromomethane	1.4	---
75-01-4	Vinyl Chloride	1.4	---
75-00-3	Chloroethane	1.4	---
75-09-2	Methylene Chloride	2.9	---
67-64-1	Acetone	7.2	---
75-15-0	Carbon Disulfide	1.4	---
75-35-4	1,1-Dichloroethene	1.4	---
75-34-3	1,1-Dichloroethane	1.4	---
156-60-5	trans-1,2-Dichloroethene	1.4	---
156-59-2	cis-1,2-Dichloroethene	1.4	---
67-66-3	Chloroform	1.4	---
107-06-2	1,2-Dichloroethane	1.4	---
78-93-3	2-Butanone	7.2	---
71-55-6	1,1,1-Trichloroethane	1.4	---
56-23-5	Carbon Tetrachloride	1.4	---
108-05-4	Vinyl Acetate	7.2	---
75-27-4	Bromodichloromethane	1.4	---
78-87-5	1,2-Dichloropropane	1.4	---
10061-01-5	cis-1,3-Dichloropropene	1.4	---
79-01-6	Trichloroethene	1.4	---
124-48-1	Dibromochloromethane	1.4	---
79-00-5	1,1,2-Trichloroethane	1.4	---
71-43-2	Benzene	1.4	---
10061-02-6	trans-1,3-Dichloropropene	1.4	---
110-75-8	2-Chloroethylvinylether	7.2	---
75-25-2	Bromoform	1.4	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.2	---
591-78-6	2-Hexanone	7.2	---
127-18-4	Tetrachloroethene	1.4	---
79-34-5	1,1,2,2-Tetrachloroethane	1.4	---
108-88-3	Toluene	1.4	---
108-90-7	Chlorobenzene	1.4	---
100-41-4	Ethylbenzene	1.4	---
100-42-5	Styrene	1.4	---
75-69-4	Trichlorofluoromethane	1.4	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.9	---
1330-20-7	m,p-Xylene	1.4	---
95-47-6	o-Xylene	1.4	---

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	109%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-6-10
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 17:38

Sample Amount: 3.54 g-dry-wt
Percent Moisture: 33.5%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	---
74-83-9	Bromomethane	1.4	---
75-01-4	Vinyl Chloride	1.4	---
75-00-3	Chloroethane	1.4	---
75-09-2	Methylene Chloride	2.8	---
67-64-1	Acetone	7.1	---
75-15-0	Carbon Disulfide	1.4	---
75-35-4	1,1-Dichloroethene	1.4	---
75-34-3	1,1-Dichloroethane	1.4	---
156-60-5	trans-1,2-Dichloroethene	1.4	---
156-59-2	cis-1,2-Dichloroethene	1.4	---
67-66-3	Chloroform	1.4	---
107-06-2	1,2-Dichloroethane	1.4	---
78-93-3	2-Butanone	7.1	---
71-55-6	1,1,1-Trichloroethane	1.4	---
56-23-5	Carbon Tetrachloride	1.4	---
108-05-4	Vinyl Acetate	7.1	---
75-27-4	Bromodichloromethane	1.4	---
78-87-5	1,2-Dichloropropane	1.4	---
10061-01-5	cis-1,3-Dichloropropene	1.4	---
79-01-6	Trichloroethene	1.4	---
124-48-1	Dibromochloromethane	1.4	---
79-00-5	1,1,2-Trichloroethane	1.4	---
71-43-2	Benzene	1.4	---
10061-02-6	trans-1,3-Dichloropropene	1.4	---
110-75-8	2-Chloroethylvinylether	7.1	---
75-25-2	Bromoform	1.4	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.1	---
591-78-6	2-Hexanone	7.1	---
127-18-4	Tetrachloroethene	1.4	---
79-34-5	1,1,2,2-Tetrachloroethane	1.4	---
108-88-3	Toluene	1.4	---
108-90-7	Chlorobenzene	1.4	---
100-41-4	Ethylbenzene	1.4	---
100-42-5	Styrene	1.4	---
75-69-4	Trichlorofluoromethane	1.4	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.8	---
1330-20-7	m,p-Xylene	1.4	---
95-47-6	o-Xylene	1.4	---

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	113%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 18:06

Sample Amount: 4.84 g-dry-wt
Percent Moisture: 6.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	**Acetone**	**5.2**	**5.3**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	112%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	101%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 18:33

Sample Amount: 4.43 g-dry-wt
Percent Moisture: 11.8%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	**Acetone**	**5.6**	**8.1**
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.6	< 5.6 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.6	< 5.6 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.6	< 5.6 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.6	< 5.6 U
591-78-6	2-Hexanone	5.6	< 5.6 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	113%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 19:01

Sample Amount: 4.38 g-dry-wt
Percent Moisture: 16.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	**Acetone**	**5.7**	**11**
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.7	< 5.7 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.7	< 5.7 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.7	< 5.7 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.7	< 5.7 U
591-78-6	2-Hexanone	5.7	< 5.7 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	129%
d8-Toluene	115%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 19:28

Sample Amount: 4.63 g-dry-wt
Percent Moisture: 11.9%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	Acetone	5.4	< 5.4 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	109%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 19:56

Sample Amount: 3.57 g-dry-wt
Percent Moisture: 31.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	Vinyl Chloride	1.4	< 1.4 U
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.8	< 2.8 U
67-64-1	**Acetone**	**7.0**	**78**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**7.0**	**16**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	7.0	< 7.0 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	7.0	< 7.0 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.0	< 7.0 U
591-78-6	2-Hexanone	7.0	< 7.0 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.8	< 2.8 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	111%
Bromofluorobenzene	95.1%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-8-5
REANALYSIS

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 16:13

Sample Amount: 3.67 g-dry-wt
Percent Moisture: 31.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	Vinyl Chloride	1.4	< 1.4 U
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.7	< 2.7 U
67-64-1	**Acetone**	**6.8**	**140**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**6.8**	**29**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	6.8	< 6.8 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	6.8	< 6.8 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.8	< 6.8 U
591-78-6	2-Hexanone	6.8	< 6.8 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.7	< 2.7 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	109%
Bromofluorobenzene	94.6%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 20:24

Sample Amount: 3.86 g-dry-wt
Percent Moisture: 26.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	**Acetone**	**6.5**	**64**
75-15-0	Carbon Disulfide	1.3	< 1.3 U
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	**2-Butanone**	**6.5**	**12**
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.5	< 6.5 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	Trichloroethene	1.3	< 1.3 U
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.5	< 6.5 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.5	< 6.5 U
591-78-6	2-Hexanone	6.5	< 6.5 U
127-18-4	Tetrachloroethene	1.3	< 1.3 U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	111%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	100%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HU77W
LIMS ID: 05-4490
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area 013-1646-002.200
Date Sampled: 02/22/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 14:25

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**7.6**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	**Benzene**	**1.0**	**4.4**
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	107%
Bromofluorobenzene	110%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-6-10 MS/MSD**

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst MS: FINN5/JA
MSD: FINN5/JA
Date Analyzed MS: 03/16/05 17:11
MSD: 03/16/05 17:38

Sample Amount MS: 3.46 g-dry-wt
MSD: 3.54 g-dry-wt
Moisture: 33.5%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.4	79.5	72.3	110%	72.9	70.6	103%	8.7%
Bromomethane	< 1.4	93.8	72.3	130%	80.2	70.6	114%	15.6%
Vinyl Chloride	< 1.4	107	72.3	148%	95.2	70.6	135%	11.7%
Chloroethane	< 1.4	107	72.3	148%	92.7	70.6	131%	14.3%
Methylene Chloride	< 2.8	84.4	72.3	117%	79.4	70.6	112%	6.1%
Acetone	73.6	442	361	102%	428	353	100%	3.2%
Carbon Disulfide	< 1.4	88.6	72.3	123%	81.1	70.6	115%	8.8%
1,1-Dichloroethene	< 1.4	90.2	72.3	125%	82.4	70.6	117%	9.0%
1,1-Dichloroethane	< 1.4	90.8	72.3	126%	82.9	70.6	117%	9.1%
trans-1,2-Dichloroethene	< 1.4	83.8	72.3	116%	74.9	70.6	106%	11.2%
cis-1,2-Dichloroethene	< 1.4	83.2	72.3	115%	75.9	70.6	108%	9.2%
Chloroform	< 1.4	90.8	72.3	126%	82.5	70.6	117%	9.6%
1,2-Dichloroethane	< 1.4	80.8	72.3	112%	78.1	70.6	111%	3.4%
2-Butanone	12.7	374	361	100%	360	353	98.4%	3.8%
1,1,1-Trichloroethane	< 1.4	92.9	72.3	128%	84.8	70.6	120%	9.1%
Carbon Tetrachloride	< 1.4	71.8	72.3	99.3%	70.9	70.6	100%	1.3%
Vinyl Acetate	< 7.1	25.3	72.3	35.0%	21.0	70.6	29.7%	18.6%
Bromodichloromethane	< 1.4	72.0	72.3	99.6%	72.0	70.6	102%	0.0%
1,2-Dichloropropane	< 1.4	79.1	72.3	109%	77.1	70.6	109%	2.6%
cis-1,3-Dichloropropene	< 1.4	62.3	72.3	86.2%	60.5	70.6	85.7%	2.9%
Trichloroethene	< 1.4	78.9	72.3	109%	73.7	70.6	104%	6.8%
Dibromochloromethane	< 1.4	66.3	72.3	91.7%	60.9	70.6	86.3%	8.5%
1,1,2-Trichloroethane	< 1.4	73.3	72.3	101%	71.9	70.6	102%	1.9%
Benzene	< 1.4	75.6	72.3	105%	73.0	70.6	103%	3.5%
trans-1,3-Dichloropropene	< 1.4	60.1	72.3	83.1%	56.8	70.6	80.5%	5.6%
2-Chloroethylvinylether	< 7.1	41.0	72.3	56.7%	40.5	70.6	57.4%	1.2%
Bromoform	< 1.4	72.0	72.3	99.6%	67.2	70.6	95.2%	6.9%
4-Methyl-2-Pentanone (MIBK)	< 7.1	379	361	105%	373	353	106%	1.6%
2-Hexanone	< 7.1	357	361	98.9%	340	353	96.3%	4.9%
Tetrachloroethene	< 1.4	82.5	72.3	114%	77.8	70.6	110%	5.9%
1,1,2,2-Tetrachloroethane	< 1.4	95.0	72.3	131%	87.6	70.6	124%	8.1%
Toluene	< 1.4	78.6	72.3	109%	76.1	70.6	108%	3.2%
Chlorobenzene	< 1.4	75.0	72.3	104%	69.8	70.6	98.9%	7.2%
Ethylbenzene	< 1.4	87.9	72.3	122%	80.4	70.6	114%	8.9%
Styrene	< 1.4	63.0	72.3	87.1%	58.3	70.6	82.6%	7.7%
Trichlorofluoromethane	< 1.4	112	72.3	155%	96.5	70.6	137%	14.9%
1,1,2-Trichloro-1,2,2-trifl	< 2.8	99.9	72.3	138%	91.8	70.6	130%	8.5%
m,p-Xylene	< 1.4	165	145	114%	154	141	109%	6.9%
o-Xylene	< 1.4	80.1	72.3	111%	74.2	70.6	105%	7.6%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-031405
LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/JA
LCSD: FINN1/JA
Date Analyzed: 03/14/05 12:27
LCSD: 03/14/05 12:58

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	37.1	50.0	74.2%	38.2	50.0	76.4%	2.9%
Bromomethane	45.6	50.0	91.2%	45.0	50.0	90.0%	1.3%
Vinyl Chloride	40.4	50.0	80.8%	40.2	50.0	80.4%	0.5%
Chloroethane	37.8	50.0	75.6%	37.7	50.0	75.4%	0.3%
Methylene Chloride	44.8	50.0	89.6%	43.9	50.0	87.8%	2.0%
Acetone	232	250	92.8%	222	250	88.8%	4.4%
Carbon Disulfide	30.2	50.0	60.4%	29.3	50.0	58.6%	3.0%
1,1-Dichloroethene	55.4	50.0	111%	55.4	50.0	111%	0.0%
1,1-Dichloroethane	50.6	50.0	101%	51.0	50.0	102%	0.8%
trans-1,2-Dichloroethene	51.2	50.0	102%	51.2	50.0	102%	0.0%
cis-1,2-Dichloroethene	47.4	50.0	94.8%	50.4	50.0	101%	6.1%
Chloroform	47.8	50.0	95.6%	49.8	50.0	99.6%	4.1%
1,2-Dichloroethane	45.8	50.0	91.6%	46.6	50.0	93.2%	1.7%
2-Butanone	248	250	99.2%	271	250	108%	8.9%
1,1,1-Trichloroethane	42.4	50.0	84.8%	44.1	50.0	88.2%	3.9%
Carbon Tetrachloride	42.8	50.0	85.6%	42.7	50.0	85.4%	0.2%
Vinyl Acetate	35.8	50.0	71.6%	39.6	50.0	79.2%	10.1%
Bromodichloromethane	44.0	50.0	88.0%	44.0	50.0	88.0%	0.0%
1,2-Dichloropropane	50.7	50.0	101%	51.4	50.0	103%	1.4%
cis-1,3-Dichloropropene	46.2	50.0	92.4%	47.6	50.0	95.2%	3.0%
Trichloroethene	51.2	50.0	102%	50.9	50.0	102%	0.6%
Dibromochloromethane	42.4	50.0	84.8%	45.9	50.0	91.8%	7.9%
1,1,2-Trichloroethane	46.0	50.0	92.0%	48.6	50.0	97.2%	5.5%
Benzene	56.5	50.0	113%	54.5	50.0	109%	3.6%
trans-1,3-Dichloropropene	46.6	50.0	93.2%	47.7	50.0	95.4%	2.3%
2-Chloroethylvinylether	48.9	50.0	97.8%	50.7	50.0	101%	3.6%
Bromoform	42.0	50.0	84.0%	44.7	50.0	89.4%	6.2%
4-Methyl-2-Pentanone (MIBK)	186	250	74.4%	206	250	82.4%	10.2%
2-Hexanone	254	250	102%	286	250	114%	11.9%
Tetrachloroethene	53.0	50.0	106%	54.1	50.0	108%	2.1%
1,1,2,2-Tetrachloroethane	44.1	50.0	88.2%	48.1	50.0	96.2%	8.7%
Toluene	51.1	50.0	102%	51.4	50.0	103%	0.6%
Chlorobenzene	53.5	50.0	107%	54.4	50.0	109%	1.7%
Ethylbenzene	59.9	50.0	120%	61.4	50.0	123%	2.5%
Styrene	58.7	50.0	117%	60.0	50.0	120%	2.2%
Trichlorofluoromethane	51.7	50.0	103%	53.2	50.0	106%	2.9%
1,1,2-Trichloro-1,2,2-trifl	39.5	50.0	79.0%	37.9	50.0	75.8%	4.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031405**
 LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4468
Matrix: Soil
Date Analyzed: 03/14/05 12:27
LCSD: 03/14/05 12:58

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	111	100	111%	108	100	108%	2.7%
o-Xylene	53.4	50.0	107%	54.9	50.0	110%	2.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	77.3%	78.3%
d8-Toluene	97.1%	96.5%
Bromofluorobenzene	93.6%	94.2%
d4-1,2-Dichlorobenzene	89.1%	91.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031605**
LCS/LCSD

Lab Sample ID: LCS-031605
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
LCSD: FINN5/JA
Date Analyzed: 03/16/05 11:08
LCSD: 03/16/05 11:43

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	47.6	50.0	95.2%	52.0	50.0	104%	8.8%
Bromomethane	49.1	50.0	98.2%	49.8	50.0	99.6%	1.4%
Vinyl Chloride	54.4	50.0	109%	60.4	50.0	121%	10.5%
Chloroethane	55.0	50.0	110%	59.7	50.0	119%	8.2%
Methylene Chloride	53.5	50.0	107%	56.1	50.0	112%	4.7%
Acetone	264	250	106%	269	250	108%	1.9%
Carbon Disulfide	54.4	50.0	109%	56.8	50.0	114%	4.3%
1,1-Dichloroethene	52.7	50.0	105%	55.0	50.0	110%	4.3%
1,1-Dichloroethane	52.9	50.0	106%	57.4	50.0	115%	8.2%
trans-1,2-Dichloroethene	52.8	50.0	106%	54.3	50.0	109%	2.8%
cis-1,2-Dichloroethene	52.9	50.0	106%	55.1	50.0	110%	4.1%
Chloroform	53.2	50.0	106%	56.1	50.0	112%	5.3%
1,2-Dichloroethane	55.2	50.0	110%	54.0	50.0	108%	2.2%
2-Butanone	259	250	104%	259	250	104%	0.0%
1,1,1-Trichloroethane	55.3	50.0	111%	56.7	50.0	113%	2.5%
Carbon Tetrachloride	56.1	50.0	112%	54.5	50.0	109%	2.9%
Vinyl Acetate	50.9	50.0	102%	51.5	50.0	103%	1.2%
Bromodichloromethane	56.6	50.0	113%	55.1	50.0	110%	2.7%
1,2-Dichloropropane	54.9	50.0	110%	54.3	50.0	109%	1.1%
cis-1,3-Dichloropropene	56.3	50.0	113%	53.3	50.0	107%	5.5%
Trichloroethene	53.8	50.0	108%	54.4	50.0	109%	1.1%
Dibromochloromethane	54.0	50.0	108%	54.3	50.0	109%	0.6%
1,1,2-Trichloroethane	54.5	50.0	109%	53.4	50.0	107%	2.0%
Benzene	50.7	50.0	101%	49.8	50.0	99.6%	1.8%
trans-1,3-Dichloropropene	56.6	50.0	113%	52.9	50.0	106%	6.8%
2-Chloroethylvinylether	54.4	50.0	109%	52.6	50.0	105%	3.4%
Bromoform	52.9	50.0	106%	52.1	50.0	104%	1.5%
4-Methyl-2-Pentanone (MIBK)	276	250	110%	263	250	105%	4.8%
2-Hexanone	244	250	97.6%	249	250	99.6%	2.0%
Tetrachloroethene	53.8	50.0	108%	53.6	50.0	107%	0.4%
1,1,2,2-Tetrachloroethane	55.8	50.0	112%	54.5	50.0	109%	2.4%
Toluene	54.5	50.0	109%	54.4	50.0	109%	0.2%
Chlorobenzene	53.5	50.0	107%	56.0	50.0	112%	4.6%
Ethylbenzene	55.7	50.0	111%	57.1	50.0	114%	2.5%
Styrene	57.0	50.0	114%	58.5	50.0	117%	2.6%
Trichlorofluoromethane	56.8	50.0	114%	60.1	50.0	120%	5.6%
1,1,2-Trichloro-1,2,2-trifl	59.8	50.0	120%	60.0	50.0	120%	0.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031605**
 LCS/LCSD

Lab Sample ID: LCS-031605
LIMS ID: 05-4483
Matrix: Soil
Date Analyzed: 03/16/05 11:08
LCSD: 03/16/05 11:43

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	110	100	110%	114	100	114%	3.6%
o-Xylene	54.2	50.0	108%	56.1	50.0	112%	3.4%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	108%	109%
d8-Toluene	111%	107%
Bromofluorobenzene	109%	111%
d4-1,2-Dichlorobenzene	107%	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-031705
LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
LCSD: FINN5/JA
Date Analyzed: 03/17/05 12:34
LCSD: 03/17/05 13:20

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	48.8	50.0	97.6%	45.5	50.0	91.0%	7.0%
Bromomethane	51.8	50.0	104%	51.7	50.0	103%	0.2%
Vinyl Chloride	61.4	50.0	123%	58.8	50.0	118%	4.3%
Chloroethane	62.0	50.0	124%	59.9	50.0	120%	3.4%
Methylene Chloride	57.7	50.0	115%	56.6	50.0	113%	1.9%
Acetone	299	250	120%	277	250	111%	7.6%
Carbon Disulfide	58.0	50.0	116%	56.1	50.0	112%	3.3%
1,1-Dichloroethene	54.9	50.0	110%	54.8	50.0	110%	0.2%
1,1-Dichloroethane	56.9	50.0	114%	58.4	50.0	117%	2.6%
trans-1,2-Dichloroethene	55.5	50.0	111%	55.4	50.0	111%	0.2%
cis-1,2-Dichloroethene	57.1	50.0	114%	57.7	50.0	115%	1.0%
Chloroform	60.0	50.0	120%	58.8	50.0	118%	2.0%
1,2-Dichloroethane	56.8	50.0	114%	56.3	50.0	113%	0.9%
2-Butanone	277	250	111%	266	250	106%	4.1%
1,1,1-Trichloroethane	58.8	50.0	118%	58.1	50.0	116%	1.2%
Carbon Tetrachloride	55.0	50.0	110%	54.5	50.0	109%	0.9%
Vinyl Acetate	53.9	50.0	108%	54.2	50.0	108%	0.6%
Bromodichloromethane	56.9	50.0	114%	55.9	50.0	112%	1.8%
1,2-Dichloropropane	54.1	50.0	108%	53.9	50.0	108%	0.4%
cis-1,3-Dichloropropene	53.7	50.0	107%	53.7	50.0	107%	0.0%
Trichloroethene	55.5	50.0	111%	52.9	50.0	106%	4.8%
Dibromochloromethane	52.9	50.0	106%	50.9	50.0	102%	3.9%
1,1,2-Trichloroethane	55.4	50.0	111%	52.4	50.0	105%	5.6%
Benzene	50.4	50.0	101%	50.0	50.0	100%	0.8%
trans-1,3-Dichloropropene	56.2	50.0	112%	53.0	50.0	106%	5.9%
2-Chloroethylvinylether	51.7	50.0	103%	51.0	50.0	102%	1.4%
Bromoform	51.6	50.0	103%	50.4	50.0	101%	2.4%
4-Methyl-2-Pentanone (MIBK)	276	250	110%	264	250	106%	4.4%
2-Hexanone	251	250	100%	248	250	99.2%	1.2%
Tetrachloroethene	50.6	50.0	101%	52.6	50.0	105%	3.9%
1,1,2,2-Tetrachloroethane	55.9	50.0	112%	53.0	50.0	106%	5.3%
Toluene	55.0	50.0	110%	54.5	50.0	109%	0.9%
Chlorobenzene	53.2	50.0	106%	55.6	50.0	111%	4.4%
Ethylbenzene	57.0	50.0	114%	57.3	50.0	115%	0.5%
Styrene	57.5	50.0	115%	58.2	50.0	116%	1.2%
Trichlorofluoromethane	65.4	50.0	131%	61.8	50.0	124%	5.7%
1,1,2-Trichloro-1,2,2-trifl	60.6	50.0	121%	59.5	50.0	119%	1.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031705**
 LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4488
Matrix: Soil
Date Analyzed: 03/17/05 12:34
LCSD: 03/17/05 13:20

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	115	100	115%	116	100	116%	0.9%
o-Xylene	54.0	50.0	108%	54.9	50.0	110%	1.7%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	120%	119%
d8-Toluene	111%	111%
Bromofluorobenzene	109%	112%
d4-1,2-Dichlorobenzene	105%	105%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031505	47.2%	48.4%	58.0%	50.4%	50.1%	47.2%	52.0%	50.1%	0
LCS-031505	52.0%	54.4%	68.0%	52.8%	53.6%	50.4%	61.1%	53.3%	0
LCSD-031505	54.8%	56.0%	70.8%	56.4%	58.1%	52.8%	65.3%	56.5%	0
DP-SY-2-1	54.0%	56.4%	55.6%	51.2%	49.1%	48.8%	58.1%	54.9%	0
DP-SY-2-5	45.6%	49.2%	64.4%	46.0%	43.5%	35.5%	23.0%	41.3%	0
DP-SY-2-10	36.1%	39.5%	52.4%	34.2%	39.7%	36.8%	46.4%	39.5%	0
DP-SY-3-1	49.6%	54.8%	64.8%	47.6%	53.6%	48.3%	60.3%	52.8%	0
DP-SY-3-1 MS	52.0%	58.8%	68.8%	50.8%	51.7%	42.9%	49.3%	49.1%	0
DP-SY-3-1 MSD	49.2%	52.8%	64.4%	48.8%	46.9%	38.1%	43.7%	45.3%	0
DP-SY-3-5	46.8%	48.4%	65.6%	46.4%	48.8%	45.9%	60.5%	49.6%	0
DP-SY-3-10	51.6%	55.6%	57.2%	49.2%	49.9%	46.9%	58.4%	53.3%	0
DP-SY-4-1	43.2%	45.2%	52.8%	44.0%	45.1%	40.8%	48.5%	46.1%	0
DP-SY-4-5	46.8%	50.4%	56.0%	47.2%	42.9%	41.9%	53.1%	48.3%	0
DP-SY-4-10	49.6%	50.4%	58.8%	50.0%	46.4%	47.7%	52.5%	51.7%	0
DP-SY-5-1	46.0%	48.8%	56.8%	46.4%	41.6%	42.7%	45.6%	47.2%	0
DP-SY-5-5	32.1%	35.2%	40.0%	30.6%	31.5%	29.9%*	38.4%	32.3%	1
DP-SY-5-10	36.1%	37.9%	46.4%	35.9%	30.9%	32.8%*	32.8%	36.8%	1
DP-SY-6-1	76.8%	81.6%	81.6%	72.8%	76.0%	70.1%	70.1%	78.4%	0
DP-SY-6-5	48.4%	50.0%	57.6%	50.4%	40.0%	43.2%	45.6%	49.6%	0
DP-SY-6-10	52.0%	53.6%	61.6%	53.2%	42.7%	48.8%	45.9%	53.3%	0
DP-SY-7-1	57.6%	58.4%	67.2%	58.8%	42.1%	44.5%	24.3%	51.5%	0
DP-SY-7-5	69.2%	71.2%	90.4%	66.8%	67.7%	55.5%	60.5%	63.7%	0
DP-SY-7-5 RE	64.4%	68.8%	87.6%	62.0%	61.6%	52.8%	62.9%	61.1%	0
DP-SY-7-10	50.8%	52.0%	68.0%	50.4%	46.4%	43.2%	41.1%	47.7%	0
DP-SY-8-1	57.2%	64.4%	67.6%	56.4%	66.4%	56.5%	71.2%	64.0%	0
DP-SY-8-5	43.6%	47.2%	56.4%	42.4%	44.3%	41.3%	52.3%	44.5%	0
MB-031505	57.6%	59.2%	70.4%	57.2%	60.0%	46.1%	62.9%	58.4%	0
LCS-031505	67.2%	70.0%	70.4%	66.4%	63.2%	51.2%	66.7%	65.1%	0
LCSD-031505	65.2%	68.4%	74.4%	64.0%	65.9%	50.7%	66.7%	65.1%	0
DP-SY-8-10	35.5%	38.4%	44.8%	33.3%	37.1%	31.5%*	40.3%	36.5%	1

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(24-100)	(7-113)
(FBP) = 2-Fluorobiphenyl	(27-108)	(30-99)
(TPH) = d14-p-Terphenyl	(38-134)	(39-116)
(DCB) = d4-1,2-Dichlorobenzene	(24-96)	(23-84)

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

SW8270 SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

	LCS/MB LIMITS	QC LIMITS
(PHL) = d5-Phenol	(34-99)	(27-97)
(2FP) = 2-Fluorophenol	(35-102)	(33-93)
(TBP) = 2,4,6-Tribromophenol	(28-113)	(22-127)
(2CP) = d4-2-Chlorophenol	(33-97)	(30-94)

Prep Method: SW3550B
Log Number Range: 05-4468 to 05-4489

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 10:13
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4468
Matrix: Soil
Date Analyzed: 03/18/05 10:13

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	47.2%	2-Fluorobiphenyl	48.4%
d14-p-Terphenyl	58.0%	d4-1,2-Dichlorobenzene	50.4%
d5-Phenol	50.1%	2-Fluorophenol	47.2%
2,4,6-Tribromophenol	52.0%	d4-2-Chlorophenol	50.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/23/05 16:40
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4489
Matrix: Soil
Date Analyzed: 03/23/05 16:40

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.6%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	60.0%	2-Fluorophenol	46.1%
2,4,6-Tribromophenol	62.9%	d4-2-Chlorophenol	58.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 16:26
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.13 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.2%
pH: 6.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	70	< 70 U
111-44-4	Bis-(2-Chloroethyl) Ether	70	< 70 U
95-57-8	2-Chlorophenol	70	< 70 U
541-73-1	1,3-Dichlorobenzene	70	< 70 U
106-46-7	1,4-Dichlorobenzene	70	< 70 U
100-51-6	Benzyl Alcohol	350	< 350 U
95-50-1	1,2-Dichlorobenzene	70	< 70 U
95-48-7	2-Methylphenol	70	< 70 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	70	< 70 U
106-44-5	4-Methylphenol	70	< 70 U
621-64-7	N-Nitroso-Di-N-Propylamine	350	< 350 U
67-72-1	Hexachloroethane	70	< 70 U
98-95-3	Nitrobenzene	70	< 70 U
78-59-1	Isophorone	70	< 70 U
88-75-5	2-Nitrophenol	350	< 350 U
105-67-9	2,4-Dimethylphenol	70	< 70 U
65-85-0	Benzoic Acid	700	< 700 U
111-91-1	bis(2-Chloroethoxy) Methane	70	< 70 U
120-83-2	2,4-Dichlorophenol	350	< 350 U
120-82-1	1,2,4-Trichlorobenzene	70	< 70 U
91-20-3	Naphthalene	70	< 70 U
106-47-8	4-Chloroaniline	350	< 350 U
87-68-3	Hexachlorobutadiene	70	< 70 U
59-50-7	4-Chloro-3-methylphenol	350	< 350 U
91-57-6	2-Methylnaphthalene	70	< 70 U
77-47-4	Hexachlorocyclopentadiene	350	< 350 U
88-06-2	2,4,6-Trichlorophenol	350	< 350 U
95-95-4	2,4,5-Trichlorophenol	350	< 350 U
91-58-7	2-Chloronaphthalene	70	< 70 U
88-74-4	2-Nitroaniline	350	< 350 U
131-11-3	Dimethylphthalate	70	< 70 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Date Analyzed: 03/21/05 16:26

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	**Acenaphthylene**	70	**75**
99-09-2	3-Nitroaniline	350	< 350 U
83-32-9	Acenaphthene	70	< 70 U
51-28-5	2,4-Dinitrophenol	700	< 700 U
100-02-7	4-Nitrophenol	350	< 350 U
132-64-9	Dibenzofuran	70	< 70 U
606-20-2	2,6-Dinitrotoluene	350	< 350 U
121-14-2	2,4-Dinitrotoluene	350	< 350 U
84-66-2	Diethylphthalate	70	< 70 U
7005-72-3	4-Chlorophenyl-phenylether	70	< 70 U
86-73-7	Fluorene	70	< 70 U
100-01-6	4-Nitroaniline	350	< 350 U
534-52-1	4,6-Dinitro-2-Methylphenol	700	< 700 U
86-30-6	N-Nitrosodiphenylamine	70	< 70 U
101-55-3	4-Bromophenyl-phenylether	70	< 70 U
118-74-1	Hexachlorobenzene	70	< 70 U
87-86-5	Pentachlorophenol	350	< 350 U
85-01-8	Phenanthrene	70	< 70 U
86-74-8	Carbazole	70	< 70 U
120-12-7	**Anthracene**	70	**72**
84-74-2	**Di-n-Butylphthalate**	70	**180**
206-44-0	**Fluoranthene**	70	**510**
129-00-0	**Pyrene**	70	**520**
85-68-7	Butylbenzylphthalate	70	< 70 U
91-94-1	3,3'-Dichlorobenzidine	350	< 350 U
56-55-3	**Benzo(a)anthracene**	70	**180**
117-81-7	bis(2-Ethylhexyl)phthalate	70	< 70 U
218-01-9	**Chrysene**	70	**240**
117-84-0	Di-n-Octyl phthalate	70	< 70 U
205-99-2	**Benzo(b)fluoranthene**	70	**230**
207-08-9	**Benzo(k)fluoranthene**	70	**210**
50-32-8	**Benzo(a)pyrene**	70	**230**
193-39-5	**Indeno(1,2,3-cd)pyrene**	70	**110**
53-70-3	Dibenz(a,h)anthracene	70	< 70 U
191-24-2	**Benzo(g,h,i)perylene**	70	**86**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	54.0%	2-Fluorobiphenyl	56.4%
d14-p-Terphenyl	55.6%	d4-1,2-Dichlorobenzene	51.2%
d5-Phenol	49.1%	2-Fluorophenol	48.8%
2,4,6-Tribromophenol	58.1%	d4-2-Chlorophenol	54.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 11:58
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.88 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.1%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	**Hexachlorobutadiene**	**64**	**340**
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Date Analyzed: 03/18/05 11:58

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	45.6%	2-Fluorobiphenyl	49.2%
d14-p-Terphenyl	64.4%	d4-1,2-Dichlorobenzene	46.0%
d5-Phenol	43.5%	2-Fluorophenol	35.5%
2,4,6-Tribromophenol	23.0%	d4-2-Chlorophenol	41.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 12:31
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.6%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Date Analyzed: 03/18/05 12:31

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	36.1%	2-Fluorobiphenyl	39.5%
d14-p-Terphenyl	52.4%	d4-1,2-Dichlorobenzene	34.2%
d5-Phenol	39.7%	2-Fluorophenol	36.8%
2,4,6-Tribromophenol	46.4%	d4-2-Chlorophenol	39.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 13:04
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Date Analyzed: 03/18/05 13:04

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	49.6%	2-Fluorobiphenyl	54.8%
d14-p-Terphenyl	64.8%	d4-1,2-Dichlorobenzene	47.6%
d5-Phenol	53.6%	2-Fluorophenol	48.3%
2,4,6-Tribromophenol	60.3%	d4-2-Chlorophenol	52.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
MATRIX SPIKE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 13:37
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
MATRIX SPIKE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Date Analyzed: 03/18/05 13:37

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	52.0%	2-Fluorobiphenyl	58.8%
d14-p-Terphenyl	68.8%	d4-1,2-Dichlorobenzene	50.8%
d5-Phenol	51.7%	2-Fluorophenol	42.9%
2,4,6-Tribromophenol	49.3%	d4-2-Chlorophenol	49.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 14:10
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Date Analyzed: 03/18/05 14:10

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	49.2%	2-Fluorobiphenyl	52.8%
d14-p-Terphenyl	64.4%	d4-1,2-Dichlorobenzene	48.8%
d5-Phenol	46.9%	2-Fluorophenol	38.1%
2,4,6-Tribromophenol	43.7%	d4-2-Chlorophenol	45.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 14:43
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.96 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.8%
pH: 7.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	310	< 310 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	310	< 310 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Date Analyzed: 03/18/05 14:43

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99 2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.8%	2-Fluorobiphenyl	48.4%
d14-p-Terphenyl	65.6%	d4-1,2-Dichlorobenzene	46.4%
d5-Phenol	48.8%	2-Fluorophenol	45.9%
2,4,6-Tribromophenol	60.5%	d4-2-Chlorophenol	49.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 16:59
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.6%
pH: 6.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Date Analyzed: 03/21/05 16:59

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	51.6%	2-Fluorobiphenyl	55.6%
d14-p-Terphenyl	57.2%	d4-1,2-Dichlorobenzene	49.2%
d5-Phenol	49.9%	2-Fluorophenol	46.9%
2,4,6-Tribromophenol	58.4%	d4-2-Chlorophenol	53.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 15:16
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.7%
pH: 7.4

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Date Analyzed: 03/18/05 15:16

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	43.2%	2-Fluorobiphenyl	45.2%
d14-p-Terphenyl	52.8%	d4-1,2-Dichlorobenzene	44.0%
d5-Phenol	45.1%	2-Fluorophenol	40.8%
2,4,6-Tribromophenol	48.5%	d4-2-Chlorophenol	46.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 15:49
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.0%
pH: 7.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Date Analyzed: 03/18/05 15:49

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.8%	2-Fluorobiphenyl	50.4%
d14-p-Terphenyl	56.0%	d4-1,2-Dichlorobenzene	47.2%
d5-Phenol	42.9%	2-Fluorophenol	41.9%
2,4,6-Tribromophenol	53.1%	d4-2-Chlorophenol	48.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 16:22
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.8%
pH: 6.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Date Analyzed: 03/18/05 16:22

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	49.6%	2-Fluorobiphenyl	50.4%
d14-p-Terphenyl	58.8%	d4-1,2-Dichlorobenzene	50.0%
d5-Phenol	46.4%	2-Fluorophenol	47.7%
2,4,6-Tribromophenol	52.5%	d4-2-Chlorophenol	51.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 16:55
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 2.6%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Date Analyzed: 03/18/05 16:55

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.0%	2-Fluorobiphenyl	48.8%
d14-p-Terphenyl	56.8%	d4-1,2-Dichlorobenzene	46.4%
d5-Phenol	41.6%	2-Fluorophenol	42.7%
2,4,6-Tribromophenol	45.6%	d4-2-Chlorophenol	47.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 17:31
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.90 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.1%
pH: 5.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Date Analyzed: 03/21/05 17:31

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	32.1%	2-Fluorobiphenyl	35.2%
d14-p-Terphenyl	40.0%	d4-1,2-Dichlorobenzene	30.6%
d5-Phenol	31.5%	2-Fluorophenol	29.9%
2,4,6-Tribromophenol	38.4%	d4-2-Chlorophenol	32.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 18:01
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.4%
pH: 5.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Date Analyzed: 03/18/05 18:01

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	36.1%	2-Fluorobiphenyl	37.9%
d14-p-Terphenyl	46.4%	d4-1,2-Dichlorobenzene	35.9%
d5-Phenol	30.9%	2-Fluorophenol	32.8%
2,4,6-Tribromophenol	32.8%	d4-2-Chlorophenol	36.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 18:04
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.63 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.4%
pH: 8.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Date Analyzed: 03/21/05 18:04

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	**Di-n-Butylphthalate**	**66**	**84**
206-44-0	Fluoranthene	66	< 66 U
129-00-0	**Pyrene**	**66**	**66**
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**66**	**100**
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.8%	2-Fluorobiphenyl	81.6%
d14-p-Terphenyl	81.6%	d4-1,2-Dichlorobenzene	72.8%
d5-Phenol	76.0%	2-Fluorophenol	70.1%
2,4,6-Tribromophenol	70.1%	d4-2-Chlorophenol	78.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 18:33
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.2%
pH: 8.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Date Analyzed: 03/18/05 18:33

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	48.4%	2-Fluorobiphenyl	50.0%
d14-p-Terphenyl	57.6%	d4-1,2-Dichlorobenzene	50.4%
d5-Phenol	40.0%	2-Fluorophenol	43.2%
2,4,6-Tribromophenol	45.6%	d4-2-Chlorophenol	49.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 19:06
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.73 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.9%
pH: 7.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Date Analyzed: 03/18/05 19:06

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	52.0%	2-Fluorobiphenyl	53.6%
d14-p-Terphenyl	61.6%	d4-1,2-Dichlorobenzene	53.2%
d5-Phenol	42.7%	2-Fluorophenol	48.8%
2,4,6-Tribromophenol	45.9%	d4-2-Chlorophenol	53.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 19:39
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%
pH: 7.7

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Date Analyzed: 03/18/05 19:39

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.6%	2-Fluorobiphenyl	58.4%
d14-p-Terphenyl	67.2%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	42.1%	2-Fluorophenol	44.5%
2,4,6-Tribromophenol	24.3%	d4-2-Chlorophenol	51.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/23/05 23:47
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%
pH: 7.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Date Analyzed: 03/23/05 23:47

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	71.2%
d14-p-Terphenyl	90.4%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	67.7%	2-Fluorophenol	55.5%
2,4,6-Tribromophenol	60.5%	d4-2-Chlorophenol	63.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
REANALYSIS

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 14:15
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%
pH: 7.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
REANALYSIS

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Date Analyzed: 03/21/05 14:15

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.4%	2-Fluorobiphenyl	68.8%
d14-p-Terphenyl	87.6%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	61.6%	2-Fluorophenol	52.8%
2,4,6-Tribromophenol	62.9%	d4-2-Chlorophenol	61.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 14:47
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.5%
pH: 7.0

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Date Analyzed: 03/21/05 14:47

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.8%	2-Fluorobiphenyl	52.0%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	50.4%
d5-Phenol	46.4%	2-Fluorophenol	43.2%
2,4,6-Tribromophenol	41.1%	d4-2-Chlorophenol	47.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:18
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.70 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 9.6%
pH: 7.4

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Date Analyzed: 03/22/05 17:18

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.2%	2-Fluorobiphenyl	64.4%
d14-p-Terphenyl	67.6%	d4-1,2-Dichlorobenzene	56.4%
d5-Phenol	66.4%	2-Fluorophenol	56.5%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	64.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 15:53
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.5%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Date Analyzed: 03/21/05 15:53

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	43.6%	2-Fluorobiphenyl	47.2%
d14-p-Terphenyl	56.4%	d4-1,2-Dichlorobenzene	42.4%
d5-Phenol	44.3%	2-Fluorophenol	41.3%
2,4,6-Tribromophenol	52.3%	d4-2-Chlorophenol	44.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:51
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.9%
pH: 7.1

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Date Analyzed: 03/22/05 17:51

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	35.5%	2-Fluorobiphenyl	38.4%
d14-p-Terphenyl	44.8%	d4-1,2-Dichlorobenzene	33.3%
d5-Phenol	37.1%	2-Fluorophenol	31.5%
2,4,6-Tribromophenol	40.3%	d4-2-Chlorophenol	36.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
MS/MSD

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/18/05 13:37
MSD: 03/18/05 14:10
Instrument/Analyst MS: NT4/LJR
MSD: NT4/LJR
GPC Cleanup: NO

Sample Amount MS: 7.55 g-dry-wt
MSD: 7.55 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 5.8%
pH: 7.2

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 66.2	1140	2480	46.0%	1190	2480	48.0%	4.3%
2-Chlorophenol	< 66.2	1060	2480	42.7%	1130	2480	45.6%	6.4%
1,4-Dichlorobenzene	< 66.2	700	1660	42.2%	784	1660	47.2%	11.3%
N-Nitroso-Di-N-Propylamine	< 331	799	1660	48.1%	897	1660	54.0%	11.6%
1,2,4-Trichlorobenzene	< 66.2	743	1660	44.8%	807	1660	48.6%	8.3%
4-Chloro-3-methylphenol	< 331	1300	2480	52.4%	1370	2480	55.2%	5.2%
Acenaphthene	< 66.2	888	1660	53.5%	923	1660	55.6%	3.9%
4-Nitrophenol	< 331	1690	2480	68.1%	1770	2480	71.4%	4.6%
2,4-Dinitrotoluene	< 331	908	1660	54.7%	995	1660	59.9%	9.1%
Pentachlorophenol	< 331	1360	2480	54.8%	1500	2480	60.5%	9.8%
Phenanthrene	< 66.2	125	199	62.8%	129	199	64.8%	3.1%
Pyrene	< 66.2	989	1660	59.6%	1040	1660	62.7%	5.0%
Chrysene	< 66.2	129	199	64.8%	139	199	69.8%	7.5%
Benzo(k)fluoranthene	< 66.2	116	199	58.3%	138	199	69.3%	17.3%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/18/05 10:46
LCSD: 03/18/05 11:18
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1280	2500	51.2%	1510	2500	60.4%	16.5%
2-Chlorophenol	1270	2500	50.8%	1510	2500	60.4%	17.3%
1,4-Dichlorobenzene	793	1670	47.5%	945	1670	56.6%	17.5%
N-Nitroso-Di-N-Propylamine	856	1670	51.3%	1020	1670	61.1%	17.5%
1,2,4-Trichlorobenzene	821	1670	49.2%	972	1670	58.2%	16.8%
4-Chloro-3-methylphenol	1430	2500	57.2%	1770	2500	70.8%	21.2%
Acenaphthene	893	1670	53.5%	1040	1670	62.3%	15.2%
4-Nitrophenol	1660	2500	66.4%	1970	2500	78.8%	17.1%
2,4-Dinitrotoluene	957	1670	57.3%	1180	1670	70.7%	20.9%
Pentachlorophenol	1400	2500	56.0%	1630	2500	65.2%	15.2%
Phenanthrene	126	200	63.0%	142	200	71.0%	11.9%
Pyrene	1030	1670	61.7%	1190	1670	71.3%	14.4%
Chrysene	136	200	68.0%	149	200	74.5%	9.1%
Benzo(k)fluoranthene	131	200	65.5%	141	200	70.5%	7.4%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	52.0%	54.8%
2-Fluorobiphenyl	54.4%	56.0%
d14-p-Terphenyl	68.0%	70.8%
d4-1,2-Dichlorobenzene	52.8%	56.4%
d5-Phenol	53.6%	58.1%
2-Fluorophenol	50.4%	52.8%
2,4,6-Tribromophenol	61.1%	65.3%
d4-2-Chlorophenol	53.3%	56.5%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/21/05 19:10
LCSD: 03/21/05 19:43
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1540	2500	61.6%	1660	2500	66.4%	7.5%
2-Chlorophenol	1590	2500	63.6%	1680	2500	67.2%	5.5%
1,4-Dichlorobenzene	1010	1670	60.5%	1010	1670	60.5%	0.0%
N-Nitroso-Di-N-Propylamine	1050	1670	62.9%	1140	1670	68.3%	8.2%
1,2,4-Trichlorobenzene	1040	1670	62.3%	1060	1670	63.5%	1.9%
4-Chloro-3-methylphenol	1870	2500	74.8%	2050	2500	82.0%	9.2%
Acenaphthene	1130	1670	67.7%	1190	1670	71.3%	5.2%
4-Nitrophenol	1450	2500	58.0%	1800	2500	72.0%	21.5%
2,4-Dinitrotoluene	574	1670	34.4%	879	1670	52.6%	42.0%
Pentachlorophenol	1700	2500	68.0%	1770	2500	70.8%	4.0%
Phenanthrene	153	200	76.5%	176	200	88.0%	14.0%
Pyrene	1110	1670	66.5%	1250	1670	74.9%	11.9%
Chrysene	167	200	83.5%	189	200	94.5%	12.4%
Benzo(k)fluoranthene	184	200	92.0%	210	200	105%	13.2%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	67.2%	65.2%
2-Fluorobiphenyl	70.0%	68.4%
d14-p-Terphenyl	70.4%	74.4%
d4-1,2-Dichlorobenzene	66.4%	64.0%
d5-Phenol	63.2%	65.9%
2-Fluorophenol	51.2%	50.7%
2,4,6-Tribromophenol	66.7%	66.7%
d4-2-Chlorophenol	65.1%	65.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

FORM III

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	MNP	DBA	TOT OUT
MB-031505	58.0%	85.0%	0
LCS-031505	57.0%	102%	0
LCSD-031505	60.3%	96.7%	0
DP-SY-2-1	57.0%	64.0%	0
DP-SY-2-5	50.7%	92.7%	0
DP-SY-2-10	41.3%	52.0%	0
DP-SY-3-1	63.0%	86.0%	0
DP-SY-3-1 MS	60.3%	104%	0
DP-SY-3-1 MSD	60.0%	81.7%	0
DP-SY-3-5	57.0%	80.7%	0
DP-SY-3-10	61.7%	45.3%	0
DP-SY-4-1	53.7%	60.0%	0
DP-SY-4-5	59.0%	64.7%	0
DP-SY-4-10	56.0%	64.0%	0
DP-SY-5-1	57.7%	69.3%	0
DP-SY-5-5	37.7%	63.0%	0
DP-SY-5-10	45.3%	89.3%	0
DP-SY-5-10 DL	48.3%	66.3%	0
DP-SY-6-1	64.0%	47.0%	0
DP-SY-6-5	64.7%	73.0%	0
DP-SY-6-10	56.7%	86.0%	0
DP-SY-7-1	67.7%	86.3%	0
DP-SY-7-5	63.7%	102%	0
DP-SY-7-5 DL	61.3%	90.3%	0
DP-SY-7-10	55.0%	20.7%	0
DP-SY-7-10 DL	58.7%	81.0%	0
DP-SY-8-1	62.3%	42.0%	0
DP-SY-8-5	53.7%	61.3%	0
MB-031505	60.3%	41.3%	0
LCS-031505	63.3%	36.7%	0
LCSD-031505	66.0%	49.7%	0
DP-SY-8-10	37.3%	73.3%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(37-101)	(27-106)
(DBA) = d14-Dibenzo(a,h)anthracene	(30-126)	(10-123)

Prep Method: SW3550B
Log Number Range: 05-4468 to 05-4489

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 17:12
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.7	< 6.7 U
91-57-6	2-Methylnaphthalene	6.7	< 6.7 U
208-96-8	Acenaphthylene	6.7	< 6.7 U
83-32-9	Acenaphthene	6.7	< 6.7 U
86-73-7	Fluorene	6.7	< 6.7 U
85-01-8	Phenanthrene	6.7	< 6.7 U
120-12-7	Anthracene	6.7	< 6.7 U
206-44-0	Fluoranthene	6.7	< 6.7 U
129-00-0	Pyrene	6.7	< 6.7 U
56-55-3	Benzo(a)anthracene	6.7	< 6.7 U
218-01-9	Chrysene	6.7	< 6.7 U
205-99-2	Benzo(b)fluoranthene	6.7	< 6.7 U
207-08-9	Benzo(k)fluoranthene	6.7	< 6.7 U
50-32-8	Benzo(a)pyrene	6.7	< 6.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	< 6.7 U
53-70-3	Dibenz(a,h)anthracene	6.7	< 6.7 U
191-24-2	Benzo(g,h,i)perylene	6.7	< 6.7 U
132-64-9	Dibenzofuran	6.7	< 6.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	58.0%
d14-Dibenzo(a,h)anthracene	85.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 17:19
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.7	< 6.7 U
91-57-6	2-Methylnaphthalene	6.7	< 6.7 U
208-96-8	Acenaphthylene	6.7	< 6.7 U
83-32-9	Acenaphthene	6.7	< 6.7 U
86-73-7	Fluorene	6.7	< 6.7 U
85-01-8	Phenanthrene	6.7	< 6.7 U
120-12-7	Anthracene	6.7	< 6.7 U
206-44-0	Fluoranthene	6.7	< 6.7 U
129-00-0	Pyrene	6.7	< 6.7 U
56-55-3	Benzo(a)anthracene	6.7	< 6.7 U
218-01-9	Chrysene	6.7	< 6.7 U
205-99-2	Benzo(b)fluoranthene	6.7	< 6.7 U
207-08-9	Benzo(k)fluoranthene	6.7	< 6.7 U
50-32-8	Benzo(a)pyrene	6.7	< 6.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	< 6.7 U
53-70-3	Dibenz(a,h)anthracene	6.7	< 6.7 U
191-24-2	Benzo(g,h,i)perylene	6.7	< 6.7 U
132-64-9	Dibenzofuran	6.7	< 6.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	60.3%
d14-Dibenzo(a,h)anthracene	41.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 21:49
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.13 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 3.00
Percent Moisture: 5.2 %
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	21	< 21 U
91-57-6	2-Methylnaphthalene	21	< 21 U
208-96-8	**Acenaphthylene**	**21**	**120**
83-32-9	**Acenaphthene**	**21**	**59**
86-73-7	Fluorene	21	< 21 U
85-01-8	**Phenanthrene**	**21**	**34**
120-12-7	**Anthracene**	**21**	**99**
206-44-0	**Fluoranthene**	**21**	**510**
129-00-0	**Pyrene**	**21**	**580**
56-55-3	**Benzo(a)anthracene**	**21**	**210**
218-01-9	**Chrysene**	**21**	**240**
205-99-2	**Benzo(b)fluoranthene**	**21**	**290**
207-08-9	**Benzo(k)fluoranthene**	**21**	**170**
50-32-8	**Benzo(a)pyrene**	**21**	**220**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**21**	**95**
53-70-3	**Dibenz(a,h)anthracene**	**21**	**30**
191-24-2	**Benzo(g,h,i)perylene**	**21**	**82**
132-64-9	Dibenzofuran	21	< 21 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	57.0%
d14-Dibenzo(a,h)anthracene	64.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 18:27
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.88 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 17.1 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	50.7%
d14-Dibenzo(a,h)anthracene	92.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 18:52
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 27.6 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	Phenanthrene	6.5	< 6.5 U
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate	Recovery
d10-2-Methylnaphthalene	41.3%
d14-Dibenzo(a,h)anthracene	52.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 19:17
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracene	86.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-3-1
MATRIX SPIKE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 19:43
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	---
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	---
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	---
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	---
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	---
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.3%
d14-Dibenzo(a,h)anthracene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-3-1
MATRIX SPIKE DUP

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 20:08
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	---
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	---
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	---
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	---
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	---
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.0%
d14-Dibenzo(a,h)anthracene	81.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 20:33
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.96 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 11.8 %
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	**2-Methylnaphthalene**	**6.3**	**21**
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	**Phenanthrene**	**6.3**	**14**
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	57.0%
d14-Dibenzo(a,h)anthracene	80.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 17:54
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 15.6 %
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**9.2**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	**Pyrene**	**6.5**	**7.2**
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	**Chrysene**	**6.5**	**11**
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	61.7%
d14-Dibenzo(a,h)anthracene	45.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 20:58
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.7 %
pH: 7.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	**Fluoranthene**	**6.6**	**7.9**
129-00-0	**Pyrene**	**6.6**	**8.6**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	**Chrysene**	**6.6**	**9.3**
205-99-2	**Benzo(b)fluoranthene**	**6.6**	**14**
207-08-9	**Benzo(k)fluoranthene**	**6.6**	**11**
50-32-8	**Benzo(a)pyrene**	**6.6**	**7.3**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**6.6**	**9.9**
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	**Benzo(g,h,i)perylene**	**6.6**	**13**
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	53.7%
d14-Dibenzo(a,h)anthracene	60.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 21:23
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.0 %
pH: 7.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**17**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracene	64.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 21:48
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 20.8 %
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	56.0%
d14-Dibenzo(a,h)anthracene	64.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 22:13
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 2.6 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	57.7%
d14-Dibenzo(a,h)anthracene	69.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:28
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.90 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 25.1 %
pH: 5.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	37.7%
d14-Dibenzo(a,h)anthracene	63.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 16:38
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 22.4 %
pH: 5.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate	Recovery
d10-2-Methylnaphthalene	45.3%
d14-Dibenzo(a,h)anthracene	89.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-5-10
REANALYSIS

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 16:50
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 22.4 %
pH: 5.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	48.3%
d14-Dibenzo(a,h)anthracene	66.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 19:46
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.63 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 3.00
Percent Moisture: 15.4 %
pH: 8.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	**Phenanthrene**	**20**	**22**
120-12-7	Anthracene	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**41**
129-00-0	**Pyrene**	**20**	**53**
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	**Chrysene**	**20**	**30**
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	**Benzo(a)pyrene**	**20**	**33**
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	64.0%
d14-Dibenzo(a,h)anthracene	47.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 17:28
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 11.2 %
pH: 8.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	**2-Methylnaphthalene**	**6.6**	**11**
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	64.7%
d14-Dibenzo(a,h)anthracene	73.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 13:31
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.73 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 22.9 %
pH: 7.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	Phenanthrene	6.5	< 6.5 U
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	56.7%
d14-Dibenzo(a,h)anthracene	86.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 20:08
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.3 %
pH: 7.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracene	86.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 18:19
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.3 %
pH: 7.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.7%
d14-Dibenzo(a,h)anthracene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-7-5
REANALYSIS

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:15
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.3 %
pH: 7.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	61.3%
d14-Dibenzo(a,h)anthracene	90.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 19:09
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 21.5 %
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	55.0%
d14-Dibenzo(a,h)anthracene	20.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-7-10
REANALYSIS

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:40
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 21.5 %
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	58.7%
d14-Dibenzo(a,h)anthracene	81.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 18:44
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.70 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 9.6 %
pH: 7.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**7.8**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	**Fluoranthene**	**6.5**	**13**
129-00-0	**Pyrene**	**6.5**	**16**
56-55-3	**Benzo(a)anthracene**	**6.5**	**9.1**
218-01-9	**Chrysene**	**6.5**	**12**
205-99-2	**Benzo(b)fluoranthene**	**6.5**	**15**
207-08-9	**Benzo(k)fluoranthene**	**6.5**	**15**
50-32-8	**Benzo(a)pyrene**	**6.5**	**9.7**
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracene	42.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 21:24
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 31.5 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**11**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	**Fluoranthene**	**6.6**	**21**
129-00-0	**Pyrene**	**6.6**	**18**
56-55-3	**Benzo(a)anthracene**	**6.6**	**7.3**
218-01-9	**Chrysene**	**6.6**	**8.6**
205-99-2	**Benzo(b)fluoranthene**	**6.6**	**7.9**
207-08-9	**Benzo(k)fluoranthene**	**6.6**	**5.3 J**
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	53.7%
d14-Dibenzo(a,h)anthracene	61.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 18:05
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 21.9 %
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	37.3%
d14-Dibenzo(a,h)anthracene	73.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: DP-SY-3-1
MS/MSD

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/16/05 19:43
MSD: 03/16/05 20:08
Instrument/Analyst MS: NT1/YZ
MSD: NT1/YZ
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount MS: 7.55 g-dry-wt
MSD: 7.55 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
pH: 7.2
Moisture: 5.8%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Acenaphthene	< 6.6	1070	1660	64.6%	1090	1660	65.8%	1.9%
Phenanthrene	< 6.6	136	199	68.3%	146	199	73.4%	7.1%
Pyrene	< 6.6	999	1660	60.3%	1130	1660	68.3%	12.3%
Chrysene	< 6.6	137	199	68.8%	144	199	72.4%	5.0%
Benzo(k)fluoranthene	< 6.6	170	199	85.4%	144	199	72.4%	16.6%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted LCS/LCSD: 03/15/05
Date Analyzed LCS: 03/16/05 17:37
LCSD: 03/16/05 18:02
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 g
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
pH: NA
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acenaphthene	1000	1670	59.9%	1180	1670	70.7%	16.5%
Phenanthrene	152	200	76.0%	150	200	75.0%	1.3%
Pyrene	1120	1670	67.1%	1230	1670	73.7%	9.4%
Chrysene	159	200	79.5%	162	200	81.0%	1.9%
Benzo(k)fluoranthene	150	200	75.0%	149	200	74.5%	0.7%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	57.0%	60.3%
d14-Dibenzo(a,h)anthracene	102%	96.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/18/05 17:44
LCSD: 03/18/05 18:09
Instrument/Analyst LCS: NT1/Van
LCSD: NT1/Van
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 g
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
pH: NA
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acenaphthene	975	1670	58.4%	1110	1670	66.5%	12.9%
Phenanthrene	139	200	69.5%	155	200	77.5%	10.9%
Pyrene	1220	1670	73.1%	1350	1670	80.8%	10.1%
Chrysene	141	200	70.5%	159	200	79.5%	12.0%
Benzo(k)fluoranthene	164	200	82.0%	185	200	92.5%	12.0%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	63.3%	66.0%
d14-Dibenzo(a,h)anthracene	36.7%	49.7%

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCBP	TCMX	TOT OUT
DP-SY-2-1	140%	91.8%	0
DP-SY-2-5	115%	95.8%	0
DP-SY-2-10	125%	94.0%	0
DP-SY-3-1	115%	93.5%	0
DP-SY-3-5	115%	100%	0
DP-SY-3-10	120%	96.0%	0
DP-SY-4-1	142%	93.2%	0
DP-SY-4-5	130%	95.0%	0
DP-SY-4-10	122%	86.0%	0
MB-031505	114%	96.0%	0
LCS-031505	110%	102%	0
LCSD-031505	109%	98.5%	0
DP-SY-5-1	123%	100%	0
DP-SY-5-1 MS	110%	98.2%	0
DP-SY-5-1 MSD	118%	102%	0
DP-SY-5-5	116%	106%	0
DP-SY-5-10	109%	91.5%	0
DP-SY-6-1	133%	102%	0
DP-SY-6-5	104%	88.5%	0
DP-SY-6-10	121%	98.0%	0
DP-SY-7-1	117%	97.0%	0
DP-SY-7-5	113%	96.2%	0
DP-SY-7-10	104%	90.8%	0
DP-SY-8-1	115%	85.5%	0
DP-SY-8-5	112%	82.8%	0
MB-031505	115%	87.8%	0
LCS-031505	102%	86.0%	0
LCSD-031505	107%	92.2%	0
DP-SY-8-10	106%	82.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-4468 to 05-4489

000142

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 12:30
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	114%
Tetrachlorometaxylene	96.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 21:46
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	115%
Tetrachlorometaxylene	87.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 13:21
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 3.79 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 5.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	110	< 110 U
53469-21-9	Aroclor 1242	110	< 110 U
12672-29-6	Aroclor 1248	110	< 110 U
11097-69-1	**Aroclor 1254**	**110**	**230**
11096-82-5	**Aroclor 1260**	**110**	**140**
11104-28-2	Aroclor 1221	110	< 110 U
11141-16-5	Aroclor 1232	110	< 110 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	140%
Tetrachlorometaxylene	91.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 13:55
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	95.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:12
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 27.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	125%
Tetrachlorometaxylene	94.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:29
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 5.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	**Aroclor 1254**	**33**	**90**
11096-82-5	**Aroclor 1260**	**33**	**73**
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	93.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:46
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 11.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	100%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 15:03
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 15.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	**Aroclor 1254**	**33**	**49**
11096-82-5	**Aroclor 1260**	**33**	**33 J**
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	120%
Tetrachlorometaxylene	96.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized: TMW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 3.81 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.4
Percent Moisture: 5.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	100	< 100 U
53469-21-9	Aroclor 1242	100	< 100 U
12672-29-6	Aroclor 1248	100	< 100 U
11097-69-1	**Aroclor 1254**	**100**	**330**
11096-82-5	**Aroclor 1260**	**100**	**210**
11104-28-2	Aroclor 1221	100	< 100 U
11141-16-5	Aroclor 1232	100	< 100 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	142%
Tetrachlorometaxylene	93.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 5.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	**Aroclor 1254**	**32**	**80**
11096-82-5	**Aroclor 1260**	**32**	**45**
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	130%
Tetrachlorometaxylene	95.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized: TMW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:40
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 20.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	122%
Tetrachlorometaxylene	86.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:57
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 2.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	123%
Tetrachlorometaxylene	100%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-1
MATRIX SPIKE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 17:14
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 2.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	---
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	---
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	110%
Tetrachlorometaxylene	98.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-1
MATRIX SPIKE DUP

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 17:31
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 2.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	---
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	---
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	118%
Tetrachlorometaxylene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 17:48
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 5.2
Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	116%
Tetrachlorometaxylene	106%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:05
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 5.8
Percent Moisture: 22.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	109%
Tetrachlorometaxylene	91.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:22
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 5.11 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.6
Percent Moisture: 15.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	78	< 78 U
53469-21-9	Aroclor 1242	78	< 78 U
12672-29-6	Aroclor 1248	78	< 78 U
11097-69-1	**Aroclor 1254**	**78**	**230**
11096-82-5	**Aroclor 1260**	**78**	**77 J**
11104-28-2	Aroclor 1221	78	< 78 U
11141-16-5	Aroclor 1232	78	< 78 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	133%
Tetrachlorometaxylene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:39
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.3
Percent Moisture: 11.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	88.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:56
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.8
Percent Moisture: 22.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	121%
Tetrachlorometaxylene	98.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 19:13
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.7
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	97.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 19:30
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	96.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 19:47
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 21.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	104%
Tetrachlorometaxylene	90.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 20:04
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.4
Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	**Aroclor 1254**	**33**	**63**
11096-82-5	**Aroclor 1260**	**33**	**41**
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	85.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 20:21
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 31.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	82.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 22:54
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 21.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	106%
Tetrachlorometaxylene	82.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: DP-SY-5-1
MS/MSD

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/17/05 17:14
MSD: 03/17/05 17:31
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount MS: 12.2 g-dry-wt
MSD: 12.2 g-dry-wt
Final Extract Volume MS: 4.0 mL
MSD: 4.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 2.6%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 32.8 U	156	164	95.1%	162	164	98.8%	3.8%
Aroclor 1260	< 32.8 U	155	164	94.5%	166	164	101%	6.9%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/15/05
Date Analyzed LCS: 03/17/05 12:47
LCSD: 03/17/05 13:04
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 12.0 g-dry-wt
LCSD: 12.0 g-dry-wt
Final Extract Volume LCS: 4.0 mL
LCSD: 4.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	167	167	100%	161	167	96.6%	3.7%
Aroclor 1260	166	167	99.6%	165	167	99.0%	0.6%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	110%	109%
Tetrachlorometaxylene	102%	98.5%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/15/05
Date Analyzed LCS: 03/17/05 22:03
LCSD: 03/17/05 22:20
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 12.0 g-dry-wt
LCSD: 12.0 g-dry-wt
Final Extract Volume LCS: 4.0 mL
LCSD: 4.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	148	167	88.8%	152	167	91.2%	2.7%
Aroclor 1260	151	167	90.6%	153	167	91.8%	1.3%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	102%	107%
Tetrachlorometaxylene	86.0%	92.2%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

TOTAL METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 93.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	5	13,700	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.4	
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.5	27.4	
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	32.9	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	6	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	5	4,670	
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	231	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	20	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	45.6	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.6	50.4	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-2-1
DUPLICATE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Aluminum	6010B	13,700	14,300	4.3%	+/- 20%	
Antimony	6010B	5 U	5 U	0.0%	+/- 5	L
Arsenic	6010B	5 U	5 U	0.0%	+/- 5	L
Beryllium	6010B	0.1	0.1	0.0%	+/- 0.1	L
Cadmium	6010B	0.4	0.5	22.2%	+/- 0.2	L
Chromium	6010B	27.4	25.2	8.4%	+/- 20%	
Copper	6010B	32.9	27.0	19.7%	+/- 20%	
Lead	6010B	6	7	15.4%	+/- 2	L
Magnesium	6010B	4,670	4,870	4.2%	+/- 20%	
Manganese	6010B	231	235	1.7%	+/- 20%	
Mercury	7471A	0.04	0.05	22.2%	+/- 0.04	L
Nickel	6010B	20	17	16.2%	+/- 20%	
Selenium	6010B	5 U	5 U	0.0%	+/- 5	L
Silver	6010B	0.3 U	0.3 U	0.0%	+/- 0.3	L
Thallium	6010B	5 U	5 U	0.0%	+/- 5	L
Vanadium	6010B	45.6	45.1	1.1%	+/- 20%	
Zinc	6010B	50.4	46.9	7.2%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-2-1
MATRIX SPIKE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Aluminum	6010B	13,700	13,800	196	51.0%	H
Antimony	6010B	5 U	58	196	29.6%	N
Arsenic	6010B	5 U	187	196	95.4%	
Beryllium	6010B	0.1	48.1	49.0	98.0%	
Cadmium	6010B	0.4	48.3	49.0	97.8%	
Chromium	6010B	27.4	99.5	49.0	147%	N
Copper	6010B	32.9	76.9	49.0	89.8%	
Lead	6010B	6	189	196	93.4%	
Magnesium	6010B	4,670	5,560	980	90.8%	H
Manganese	6010B	231	284	49.0	108%	H
Mercury	7471A	0.04	0.43	0.392	99.5%	
Nickel	6010B	20	76	49.0	114%	
Selenium	6010B	5 U	184	196	93.9%	
Silver	6010B	0.3 U	47.6	49.0	97.1%	
Thallium	6010B	5 U	178	196	90.8%	
Vanadium	6010B	45.6	91.3	49.0	93.3%	
Zinc	6010B	50.4	94.6	49.0	90.2%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 86.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	6	10,000	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.6	52.1	
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	13.5	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	4	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	6	2,200	
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	94.3	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	8	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	36.5	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.7	23.3	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 71.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	7	**22,500**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	7	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.3**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.7	**21.8**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.3	**31.5**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	3	**10**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	7	**5,460**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**370**	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.06	**0.07**	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**17**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**58.8**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.8	**64.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 93.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**8,830**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**15.1**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**12.8**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**4**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**3,080**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**142**	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.04	**0.05**	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**11**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**37.3**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**32.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**8,860**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**9.0**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**10.8**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**2**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**1,930**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**73.4**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**6**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**36.5**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**17.0**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**12,600**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.2**	
3050B	03/16/05	6010B	03/18/05	**7440-43-9**	**Cadmium**	0.2	**0.2**	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**18.0**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**20.6**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**6**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**3,630**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**180**	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.05	**0.06**	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**13**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**54.1**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**35.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 94.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**9,430**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**18.3**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**17.7**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**9**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,650**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**141**	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.05	**0.09**	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**13**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**41.3**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**48.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 95.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**9,520**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**14.0**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**12.9**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,580**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**131**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**13**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**39.8**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**27.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 78.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**10,400**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**12.1**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**13.6**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**2**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,370**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**136**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**44.6**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**23.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 97.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**7,750**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**11.7**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**9.1**	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,550**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**110**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**39.4**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**23.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 73.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	7	**10,200**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.7	**11.4**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.3	**13.2**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	3	**3**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	7	**2,150**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**77.9**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**10**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**41.8**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.8	**22.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 77.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	6	11,800	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.6	13.2	
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.3	15.5	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	3	3	U
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	6	2,560	
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	150	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	9	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.4	48.0	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.8	24.1	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	5	10,300	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	7	
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	4.3	
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.5	15.3	
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	25.1	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	16	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	5	2,950	
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	157	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	12	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	7.1	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	41.4	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.6	83.3	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 82.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**10,700**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**19.5**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**12.8**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,420**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**87.5**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**7**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**38.2**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**22.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 77.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**16,500**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.2**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**16.1**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**24.2**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**4**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**3,640**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**180**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**12**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**50.0**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**27.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 92.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**9,070**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**10.5**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**11.3**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**2**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,070**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**86.8**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**7**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**36.1**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**19.9**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 92.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**8,730**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**9.9**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**9.2**	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,200**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**161**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**36.8**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**22.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 78.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	6	11,600	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.6	13.5	
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	16.5	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	6	2,450	
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	228	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	9	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.4	46.3	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.7	22.5	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**10,800**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	**7440-43-9**	**Cadmium**	0.2	**0.8**	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**15.0**	
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**25.3**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**9**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,980**	
3050B	03/16/05	6010B	03/18/05	**7439-96-5**	**Manganese**	0.1	**148**	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.05	**0.08**	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**12**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-22-4**	**Silver**	0.3	**2.1**	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**42.5**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**50.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 68.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	7	17,200	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	8	
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.3	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.7	19.5	
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.3	32.0	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	3	11	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	7	4,750	
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	184	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.06	0.10	
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	15	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.4	58.7	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.9	47.0	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 73.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	7	16,500	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.2	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.7	15.8	
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.3	25.4	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	3	4	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	7	3,580	
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	230	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.07	0.07	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	12	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.4	49.1	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.8	26.7	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-8-10
DUPLICATE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Aluminum	6010B	16,500	16,400	0.6%	+/- 20%	
Antimony	6010B	7 U	7 U	0.0%	+/- 7	L
Arsenic	6010B	7 U	7 U	0.0%	+/- 7	L
Beryllium	6010B	0.2	0.2	0.0%	+/- 0.1	L
Cadmium	6010B	0.3 U	0.3 U	0.0%	+/- 0.3	L
Chromium	6010B	15.8	15.8	0.0%	+/- 20%	
Copper	6010B	25.4	25.6	0.8%	+/- 20%	
Lead	6010B	4	4	0.0%	+/- 3	L
Magnesium	6010B	3,580	3,560	0.6%	+/- 20%	
Manganese	6010B	230	230	0.0%	+/- 20%	
Mercury	7471A	0.07 U	0.07 U	0.0%	+/- 0.07	L
Nickel	6010B	12	13	8.0%	+/- 20%	
Selenium	6010B	7 U	7 U	0.0%	+/- 7	L
Silver	6010B	0.4 U	0.4 U	0.0%	+/- 0.4	L
Thallium	6010B	7 U	7 U	0.0%	+/- 7	L
Vanadium	6010B	49.1	49.7	1.2%	+/- 20%	
Zinc	6010B	26.7	26.6	0.4%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-8-10
MATRIX SPIKE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample		Spike	Spike Added	% Recovery	Q
Aluminum	6010B	16,500		16,700	261	76.6%	H
Antimony	6010B	7	U	69	261	26.4%	N
Arsenic	6010B	7	U	251	261	96.2%	
Beryllium	6010B	0.2		65.1	65.2	99.5%	
Cadmium	6010B	0.3	U	63.7	65.2	97.7%	
Chromium	6010B	15.8		77.1	65.2	94.0%	
Copper	6010B	25.4		91.6	65.2	102%	
Lead	6010B	4		249	261	93.9%	
Magnesium	6010B	3,580		4,840	1,300	96.9%	
Manganese	6010B	230		288	65.2	89.0%	
Mercury	7471A	0.07	U	0.74	0.659	112%	
Nickel	6010B	12		73	65.2	93.6%	
Selenium	6010B	7	U	241	261	92.3%	
Silver	6010B	0.4	U	63.6	65.2	97.5%	
Thallium	6010B	7	U	241	261	92.3%	
Vanadium	6010B	49.1		111	65.2	94.9%	
Zinc	6010B	26.7		87.7	65.2	93.6%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HU77MB
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.5	0.5	U
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	5	5	U
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	0.1	U
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	1	U
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HU77LCS
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: F2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Aluminum	6010B	203	200	102%	
Antimony	6010B	208	200	104%	
Arsenic	6010B	198	200	99.0%	
Beryllium	6010B	50.4	50.0	101%	
Cadmium	6010B	50.4	50.0	101%	
Chromium	6010B	48.8	50.0	97.6%	
Copper	6010B	49.3	50.0	98.6%	
Lead	6010B	198	200	99.0%	
Magnesium	6010B	1020	1000	102%	
Manganese	6010B	49.2	50.0	98.4%	
Mercury	7471A	1.06	1.00	106%	
Nickel	6010B	48	50	96.0%	
Selenium	6010B	199	200	99.5%	
Silver	6010B	49.3	50.0	98.6%	
Thallium	6010B	197	200	98.5%	
Vanadium	6010B	50.2	50.0	100%	
Zinc	6010B	48.6	50.0	97.2%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HU77MB
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.5	0.5	U
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	5	5	U
3050B	03/16/05	6010B	03/18/05	7439-96-5	Manganese	0.1	0.1	U
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	1	U
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HU77LCS
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Aluminum	6010B	200	200	100%	
Antimony	6010B	206	200	103%	
Arsenic	6010B	192	200	96.0%	
Beryllium	6010B	49.9	50.0	99.8%	
Cadmium	6010B	49.2	50.0	98.4%	
Chromium	6010B	48.0	50.0	96.0%	
Copper	6010B	48.5	50.0	97.0%	
Lead	6010B	195	200	97.5%	
Magnesium	6010B	994	1000	99.4%	
Manganese	6010B	49.2	50.0	98.4%	
Mercury	7471A	1.02	1.00	102%	
Nickel	6010B	47	50	94.0%	
Selenium	6010B	193	200	96.5%	
Silver	6010B	48.4	50.0	96.8%	
Thallium	6010B	192	200	96.0%	
Vanadium	6010B	49.2	50.0	98.4%	
Zinc	6010B	47.7	50.0	95.4%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: art
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-2-1
ARI ID: 05-4468 HU77A

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.114	< 0.114 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	92.90

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: aml
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-2-5
ARI ID: 05-4469 HU77B

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.110	< 0.110 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	92.70

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: ah
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-2-10
ARI ID: 05-4470 HU77C

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.122	< 0.122 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	77.20

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-3-1
ARI ID: 05-4471 HU77D

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.104	< 0.104 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	95.10

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-3-5
ARI ID: 05-4472 HU77E

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.118	< 0.118 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	84.70

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-3-10
ARI ID: 05-4473 HU77F

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.128	< 0.128 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	76.20

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: aH
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-1
ARI ID: 05-4474 HU77G

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.106	< 0.106 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	97.00

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: aap
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-5
ARI ID: 05-4475 HU77H

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.105	< 0.105 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	95.50

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-10
ARI ID: 05-4476 HU77I

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.131	< 0.131 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	73.40

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: aw
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-10EB
ARI ID: 05-4477 HU77J

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-5-1
ARI ID: 05-4478 HU77K

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.117	< 0.117 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	93.10

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: QAP
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-5-5
ARI ID: 05-4479 HU77L

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.117	< 0.117 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	93.70

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-5-10
ARI ID: 05-4480 HU77M

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.106	< 0.106 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	77.40

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

METHOD BLANK RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: aap
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/11/05	mg/kg	< 0.010 U
Total Solids	03/08/05	Percent	< 0.01 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: ah
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome Soil Hexavalent Chrome	03/11/05	mg/kg	0.261	0.250	104.4%

REPLICATE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HU77B Client ID: DP-SY-2-5					
Hexavalent Chrome	03/11/05	mg/kg	< 0.110	< 0.111	NA
Total Solids	03/08/05	Percent	92.70	93.10 93.10	0.2%

MS/MSD RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HU77B Client ID: DP-SY-2-5						
Hexavalent Chrome	03/11/05	mg/kg	< 0.110	7.76	6.82	113.7%

METHOD BLANK RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/07/05	mg/L	< 0.010 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/07/05	mg/L	0.564	0.560	100.7%

REPLICATE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ary
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HU77J Client ID: DP-SY-4-10EB					
Hexavalent Chrome	03/07/05	mg/L	< 0.011	< 0.011	NA

MS/MSD RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HU77J Client ID: DP-SY-4-10EB						
Hexavalent Chrome	03/07/05	mg/L	< 0.011	0.631	0.620	101.8%

Total Solids

Volatile Total Solids
voats.wlf printed: 3/18/05

Worklist No. 6104

Data Analyst: Jean Alexander
Date Entered: 3/18/05
Comments:

Analyzed by: JA
Date Analyzed: 3/17/05

Sample No	Client ID/Client	Tare	Wet Wt	Dry Wt	%Solids
05-4468	HU77 A DP-SY-2-1	1.51	12.12	10.50	84.73
05-4469	HU77 B DP-SY-2-5	1.57	11.95	11.26	93.35
05-4470	HU77 C DP-SY-2-10	1.50	11.27	10.66	93.76
05-4471	HU77 D DP-SY-3-1	1.27	12.40	9.80	76.64
05-4472	HU77 E DP-SY-3-5	1.57	10.48	10.00	94.61
05-4473	HU77 F DP-SY-3-10	1.42	11.18	10.30	90.98
05-4474	HU77 G DP-SY-4-1	1.27	12.28	11.75	95.19
05-4475	HU77 H DP-SY-4-5	1.26	14.53	13.56	92.69
05-4476	HU77 I DP-SY-4-10	1.42	16.23	11.96	71.17
05-4478	HU77 K DP-SY-5-1	1.77	11.23	10.53	92.60
05-4479	HU77 L DP-SY-5-5	1.24	8.64	7.15	79.86
05-4480	HU77 M DP-SY-5-10	1.26	11.31	8.70	74.03
05-4481	HU77 N DP-SY-6-1	1.26	11.26	10.16	89.00
05-4482	HU77 O DP-SY-6-5	1.25	9.78	7.91	78.08
05-4483	HU77 P DP-SY-6-10	1.20	17.81	12.25	66.53
05-4484	HU77 Q DP-SY-7-1	1.26	8.38	7.95	93.96
05-4485	HU77 R DP-SY-7-5	1.24	10.44	9.35	88.15

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 23, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HU86

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted ten water samples in good condition on March 8, 2005. The samples were received at a cooler temperature of 10.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, metals and Hexavalent chrome. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HU86

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HU86	Turn-around Requested: STANDARD
ARI Client Company: EPI / Boeing	Phone: 425-355-0010
Client Contact: Doug Kurkel / Josh Berthel	
Client Project Name: P2DG - South Yard Area	
Client Project #: 17305	Samplers: JB / TK

Page: 1	of
Date: 3/8/04	Ice Present? YES
No. of Coolers: 1	Cooler Temps: 10.8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCB	Metals	LL Mercury	Hex Chrom			Notes/Comments
SY-DP-01-15	3/8/05	0840	WATER	8	x	x	x			x			
SY-DP-01-15-F	3/8/05	0840	WATER	2				x	x				
SY-DP-09-15	3/8/05	1015	WATER	7	x	x	x						
SY-DP-09-15-F	3/8/05	1015	WATER	2				x	x				
SY-DP-10-18	3/8/05	1200	WATER	5	x		x						
SY-DP-10-18-F	3/8/05	1200	WATER	2				x	x				
SY-DP-11-17	3/8/05	1315	WATER	3	x								
SY-DP-11-17-F	3/8/05	1315	WATER	2				x	x				
SY DP-12-15	3/8/05	1440	WATER	3	x								
SY-DP-12-15-F	3/8/05	1440	WATER	2				x	x				

Comments/Special Instructions	Relinquished by:	Received by	Relinquished by:	Received by:
Copy Dan Machot	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: Josh Berthel	Printed Name: CHRIS KING	Printed Name: CHRIS KING	Printed Name: ERIC JOHANSON
	Company: EPI	Company: GOLDER	Company: GOLDER	Company: ARI
	Date & Time: 3/8/05 1450	Date & Time: 3/8/05 1450	Date & Time: 3/8/05 3:20pm	Date & Time: 3/8/05 - 1520

000002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HU86

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HU86
March 23, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0. The samples were analyzed on 3/17/05 and 3/18/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: Sample **SY-DP-10-18 -03-15-1** contained cis-1,2-dichloroethene at an "ES" concentration. The sample was diluted and re-analyzed. Both runs are reported.

There were no other anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-DP-01-15.** All percent recoveries and RPDs were compliant.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The samples were extracted on 3/14/05 and were analyzed on 3/16/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The samples were extracted on 3/14/05 and were analyzed on 3/16/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HU86
March 23, 2005

PCB by Method 8082

The samples were extracted on 3/14/05 and were analyzed on 3/15/05 and 3/16/05 within the method recommended holding time.

Surrogates: The method blank decachlorobiphenyl surrogate recovery was elevated. The reported column percent recovery was 151%, the second column surrogate recovery was 124%, and the tetrachlorometaxylene recovery was compliant, no corrective action was taken.

All other surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved Metals by Methods 6010 and 200.8

The samples were prepared on 3/14/05 and were analyzed between 3/17/05 and 3/18/05 within the method recommended holding times.

Method Blank(s): The method blank was free of element contamination.

Samples: No anomalies were encountered for these samples.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Hexavalent Chrome

The samples were analyzed on 3/08/05 within the method recommended 24 hour holding time.

Method Blank(s): The method blank was free of element contamination.

Samples: No anomalies were encountered for these samples.

SRM/Replicate/MS/MSD: All recoveries were within compliance.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HU86

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HU86

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
031705MB	Method Blank	90.9%	104%	85.3%	99.1%	0
HU86LCS	Lab Control	106%	99.9%	101%	93.6%	0
HU86LCD	LCDuplicate	105%	107%	105%	98.0%	0
HU86A	SY-DP-01-15	113%	110%	98.0%	109%	0
HU86AMS	SY-DP-01-15	111%	105%	104%	96.1%	0
HU86AMSD	SY-DP-01-15	98.3%	103%	101%	93.4%	0
HU86B	SY-DP-09-15	118%	105%	97.2%	106%	0
031805MB	Method Blank	99.6%	97.8%	85.6%	99.7%	0
HU86LCS	Lab Control	99.9%	98.4%	96.2%	90.8%	0
HU86LCD	LCDuplicate	102%	106%	105%	99.7%	0
HU86C	SY-DP-10-18	94.5%	103%	92.5%	100%	0
HU86CDL	SY-DP-10-18	114%	105%	89.6%	101%	0
HU86D	SY-DP-11-17	112%	107%	95.8%	109%	0
HU86E	SY-DP-12-15	122%	107%	99.0%	107%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

FORM-II VOA-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031705**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-031705
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 12:38

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.9%
d8-Toluene	104%
Bromofluorobenzene	85.3%
d4-1,2-Dichlorobenzene	99.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031805**
 METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 12:49

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.6%
d8-Toluene	97.8%
Bromofluorobenzene	85.6%
d4-1,2-Dichlorobenzene	99.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-01-15**
 SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 13:42

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**0.9**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.4**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	110%
Bromofluorobenzene	98.0%
d4-1,2-Dichlorobenzene	109%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-01-15**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 15:30

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	105%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	96.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-01-15**
 MATRIX SPIKE DUPLICATE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 15:50

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.3%
d8-Toluene	103%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	93.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-09-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 18:33

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	105%
Bromofluorobenzene	97.2%
d4-1,2-Dichlorobenzene	106%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-10-18**
 SAMPLE

Lab Sample ID: HU86C
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 19:01

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**0.6**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**0.4**
75-34-3	**1,1-Dichloroethane**	**0.2**	**13**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**3.3**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**50 ES**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**15**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.5%
d8-Toluene	103%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-10-18**
 DILUTION

Lab Sample ID: HU86C
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 13:42

Sample Amount: 2.00 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	2.0	< 2.0 U
74-83-9	Bromomethane	2.0	< 2.0 U
75-01-4	Vinyl Chloride	2.0	< 2.0 U
75-00-3	Chloroethane	2.0	< 2.0 U
75-09-2	Methylene Chloride	3.0	< 3.0 U
67-64-1	Acetone	10	< 10 U
75-15-0	Carbon Disulfide	2.0	< 2.0 U
75-35-4	1,1-Dichloroethene	2.0	< 2.0 U
75-34-3	**1,1-Dichloroethane**	**2.0**	**15**
156-60-5	**trans-1,2-Dichloroethene**	**2.0**	**6.8**
156-59-2	**cis-1,2-Dichloroethene**	**2.0**	**83**
67-66-3	Chloroform	2.0	< 2.0 U
107-06-2	1,2-Dichloroethane	2.0	< 2.0 U
78-93-3	2-Butanone	10	< 10 U
71-55-6	1,1,1-Trichloroethane	2.0	< 2.0 U
56-23-5	Carbon Tetrachloride	2.0	< 2.0 U
108-05-4	Vinyl Acetate	2.0	< 2.0 U
75-27-4	Bromodichloromethane	2.0	< 2.0 U
78-87-5	1,2-Dichloropropane	2.0	< 2.0 U
10061-01-5	cis-1,3-Dichloropropene	2.0	< 2.0 U
79-01-6	**Trichloroethene**	**2.0**	**20**
124-48-1	Dibromochloromethane	2.0	< 2.0 U
79-00-5	1,1,2-Trichloroethane	2.0	< 2.0 U
71-43-2	Benzene	2.0	< 2.0 U
10061-02-6	trans-1,3-Dichloropropene	2.0	< 2.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	2.0	< 2.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10	< 10 U
591-78-6	2-Hexanone	10	< 10 U
127-18-4	Tetrachloroethene	2.0	< 2.0 U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	< 2.0 U
108-88-3	Toluene	2.0	< 2.0 U
108-90-7	Chlorobenzene	2.0	< 2.0 U
100-41-4	Ethylbenzene	2.0	< 2.0 U
100-42-5	Styrene	2.0	< 2.0 U
75-69-4	Trichlorofluoromethane	2.0	< 2.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	4.0	< 4.0 U
95-47-6	o-Xylene	2.0	< 2.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	105%
Bromofluorobenzene	89.6%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-11-17**
 SAMPLE

Lab Sample ID: HU86D
LIMS ID: 05-4565
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 14:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**0.8**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**1.9**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.1**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.3**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	107%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	109%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-12-15**
 SAMPLE

Lab Sample ID: HU86E
LIMS ID: 05-4566
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 19:55

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**2.5**
75-00-3	**Chloroethane**	**0.2**	**0.5**
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.2**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**1.2**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.6**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	107%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	107%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-01-15**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst MS: FINN3/PAB
MSD: FINN3/PAB
Date Analyzed MS: 03/17/05 15:30
MSD: 03/17/05 15:50

Sample Amount MS: 20.0 mL
MSD: 20.0 mL
Purge Volume MS: 20.0 mL
MSD: 20.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 0.2	2.2	4.0	55.0%	2.4	4.0	60.0%	8.7%
Bromomethane	< 0.2	3.0	4.0	75.0%	3.2	4.0	80.0%	6.5%
Vinyl Chloride	0.9	3.4	4.0	62.5%	3.8	4.0	72.5%	11.1%
Chloroethane	< 0.2	3.4	4.0	85.0%	3.6	4.0	90.0%	5.7%
Methylene Chloride	< 0.3	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Acetone	< 1.0	15.7	20.0	78.5%	15.3	20.0	76.5%	2.6%
Carbon Disulfide	< 0.2	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
1,1-Dichloroethene	< 0.2	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
1,1-Dichloroethane	2.4	6.7	4.0	108%	6.7	4.0	108%	0.0%
trans-1,2-Dichloroethene	< 0.2	3.8	4.0	95.0%	4.0	4.0	100%	5.1%
cis-1,2-Dichloroethene	< 0.2	4.0	4.0	100%	4.1	4.0	102%	2.5%
Chloroform	< 0.2	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,2-Dichloroethane	< 0.2	4.0	4.0	100%	4.0	4.0	100%	0.0%
2-Butanone	< 1.0	17.1	20.0	85.5%	15.8	20.0	79.0%	7.9%
1,1,1-Trichloroethane	< 0.2	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Carbon Tetrachloride	< 0.2	3.4	4.0	85.0%	3.5	4.0	87.5%	2.9%
Vinyl Acetate	< 0.2	3.7	4.0	92.5%	3.5	4.0	87.5%	5.6%
Bromodichloromethane	< 0.2	3.4	4.0	85.0%	3.2	4.0	80.0%	6.1%
1,2-Dichloropropane	< 0.2	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
cis-1,3-Dichloropropene	< 0.2	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
Trichloroethene	< 0.2	3.7	4.0	92.5%	4.0	4.0	100%	7.8%
Dibromochloromethane	< 0.2	3.7	4.0	92.5%	3.4	4.0	85.0%	8.5%
1,1,2-Trichloroethane	< 0.2	3.5	4.0	87.5%	3.3	4.0	82.5%	5.9%
Benzene	< 0.2	4.5	4.0	112%	4.3	4.0	108%	4.5%
trans-1,3-Dichloropropene	< 0.2	3.5	4.0	87.5%	3.4	4.0	85.0%	2.9%
2-Chloroethylvinylether	< 0.5	< 0.5	4.0	NA	< 0.5	4.0	NA	NA
Bromoform	< 0.2	3.5	4.0	87.5%	3.3	4.0	82.5%	5.9%
4-Methyl-2-Pentanone (MIBK)	< 1.0	15.5	20.0	77.5%	15.0	20.0	75.0%	3.3%
2-Hexanone	< 1.0	16.0	20.0	80.0%	15.6	20.0	78.0%	2.5%
Tetrachloroethene	< 0.2	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
1,1,2,2-Tetrachloroethane	< 0.2	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Toluene	< 0.2	4.0	4.0	100%	4.2	4.0	105%	4.9%
Chlorobenzene	< 0.2	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
Ethylbenzene	< 0.2	4.4	4.0	110%	4.8	4.0	120%	8.7%
Styrene	< 0.2	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
Trichlorofluoromethane	< 0.2	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
1,1,2-Trichloro-1,2,2-trifl	< 0.2	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
m,p-Xylene	< 0.4	8.6	8.0	108%	9.4	8.0	118%	8.9%
o-Xylene	< 0.2	3.3	4.0	82.5%	3.6	4.0	90.0%	8.7%

Results reported in µg/L
NA-No recovery due to high concentration of analyte in original sample, or calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031705**
Page 1 of 2 **LCS/LCSD**

Lab Sample ID: LCS-031705
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/17/05 11:30
LCSD: 03/17/05 12:10

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2.9	4.0	72.5%	2.7	4.0	67.5%	7.1%
Bromomethane	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
Vinyl Chloride	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
Chloroethane	3.4	4.0	85.0%	3.7	4.0	92.5%	8.5%
Methylene Chloride	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Acetone	17.1	20.0	85.5%	14.8	20.0	74.0%	14.4%
Carbon Disulfide	4.1	4.0	102%	3.8	4.0	95.0%	7.6%
1,1-Dichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,1-Dichloroethane	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans-1,2-Dichloroethene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
cis-1,2-Dichloroethene	4.1	4.0	102%	3.8	4.0	95.0%	7.6%
Chloroform	4.1	4.0	102%	4.0	4.0	100%	2.5%
1,2-Dichloroethane	4.0	4.0	100%	3.8	4.0	95.0%	5.1%
2-Butanone	19.8	20.0	99.0%	15.9	20.0	79.5%	21.8%
1,1,1-Trichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
Carbon Tetrachloride	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
Vinyl Acetate	3.9	4.0	97.5%	3.5	4.0	87.5%	10.8%
Bromodichloromethane	3.6	4.0	90.0%	3.4	4.0	85.0%	5.7%
1,2-Dichloropropane	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
cis-1,3-Dichloropropene	3.8	4.0	95.0%	3.5	4.0	87.5%	8.2%
Trichloroethene	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Dibromochloromethane	4.0	4.0	100%	3.8	4.0	95.0%	5.1%
1,1,2-Trichloroethane	3.6	4.0	90.0%	3.2	4.0	80.0%	11.8%
Benzene	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
trans-1,3-Dichloropropene	3.8	4.0	95.0%	3.4	4.0	85.0%	11.1%
2-Chloroethylvinylether	3.5	4.0	87.5%	3.3	4.0	82.5%	5.9%
Bromoform	3.9	4.0	97.5%	3.7	4.0	92.5%	5.3%
4-Methyl-2-Pentanone (MIBK)	16.5	20.0	82.5%	14.4	20.0	72.0%	13.6%
2-Hexanone	18.2	20.0	91.0%	16.4	20.0	82.0%	10.4%
Tetrachloroethene	4.2	4.0	105%	4.3	4.0	108%	2.4%
1,1,2,2-Tetrachloroethane	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Toluene	4.1	4.0	102%	4.1	4.0	102%	0.0%
Chlorobenzene	4.3	4.0	108%	4.2	4.0	105%	2.4%
Ethylbenzene	4.9	4.0	122%	4.8	4.0	120%	2.1%
Styrene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Trichlorofluoromethane	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
1,1,2-Trichloro-1,2,2-trifl	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
m,p-Xylene	9.6	8.0	120%	9.3	8.0	116%	3.2%
o-Xylene	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031705**
 LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4562
Matrix: Water
Date Analyzed: 03/17/05 11:30
LCSD: 03/17/05 12:10

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	106%	105%
d8-Toluene	99.9%	107%
Bromofluorobenzene	101%	105%
d4-1,2-Dichlorobenzene	93.6%	98.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031805**
 LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/18/05 11:45
LCSD: 03/18/05 12:21

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
Bromomethane	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
Vinyl Chloride	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Chloroethane	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Methylene Chloride	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Acetone	18.4	20.0	92.0%	15.9	20.0	79.5%	14.6%
Carbon Disulfide	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
1,1-Dichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
trans-1,2-Dichloroethene	4.2	4.0	105%	4.1	4.0	102%	2.4%
cis-1,2-Dichloroethene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Chloroform	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,2-Dichloroethane	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
2-Butanone	15.7	20.0	78.5%	15.7	20.0	78.5%	0.0%
1,1,1-Trichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
Carbon Tetrachloride	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Vinyl Acetate	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Bromodichloromethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
1,2-Dichloropropane	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
cis-1,3-Dichloropropene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Trichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
Dibromochloromethane	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Benzene	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans-1,3-Dichloropropene	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
2-Chloroethylvinylether	2.1	4.0	52.5%	2.1	4.0	52.5%	0.0%
Bromoform	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	13.7	20.0	68.5%	14.5	20.0	72.5%	5.7%
2-Hexanone	14.0	20.0	70.0%	14.9	20.0	74.5%	6.2%
Tetrachloroethene	4.3	4.0	108%	4.3	4.0	108%	0.0%
1,1,2,2-Tetrachloroethane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
Toluene	4.0	4.0	100%	4.2	4.0	105%	4.9%
Chlorobenzene	4.1	4.0	102%	4.3	4.0	108%	4.8%
Ethylbenzene	4.7	4.0	118%	4.9	4.0	122%	4.2%
Styrene	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Trichlorofluoromethane	4.3	4.0	108%	4.1	4.0	102%	4.8%
1,1,2-Trichloro-1,2,2-trifl	4.2	4.0	105%	4.0	4.0	100%	4.9%
m,p-Xylene	9.3	8.0	116%	9.5	8.0	119%	2.1%
o-Xylene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031805**
 LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4564
Matrix: Water
Date Analyzed: 03/18/05 11:45
LCSD: 03/18/05 12:21

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.9%	102%
d8-Toluene	98.4%	106%
Bromofluorobenzene	96.2%	105%
d4-1,2-Dichlorobenzene	90.8%	99.7%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031405	87.2%	83.6%	100%	70.4%	84.3%	79.7%	94.7%	86.7%	0
LCS-031405	82.0%	78.0%	96.4%	70.8%	76.3%	72.8%	92.3%	77.6%	0
LCSD-031405	76.0%	74.4%	91.6%	60.8%	73.1%	70.4%	89.1%	73.9%	0
SY-DP-01-15	78.8%	76.4%	86.0%	68.8%	73.1%	72.8%	84.5%	77.1%	0
SY-DP-09-15	82.4%	79.6%	94.4%	72.4%	79.2%	75.7%	92.8%	82.7%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-4562 to 05-4563

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 08:57
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4562
Matrix: Water
Date Analyzed: 03/16/05 08:57

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	87.2%	2-Fluorobiphenyl	83.6%
d14-p-Terphenyl	100%	d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	84.3%	2-Fluorophenol	79.7%
2,4,6-Tribromophenol	94.7%	d4-2-Chlorophenol	86.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 17:43
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Date Analyzed: 03/16/05 17:43

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.8%	2-Fluorobiphenyl	76.4%
d14-p-Terphenyl	86.0%	d4-1,2-Dichlorobenzene	68.8%
d5-Phenol	73.1%	2-Fluorophenol	72.8%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	77.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 18:16
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Date Analyzed: 03/16/05 18:16

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.4%	2-Fluorobiphenyl	79.6%
d14-p-Terphenyl	94.4%	d4-1,2-Dichlorobenzene	72.4%
d5-Phenol	79.2%	2-Fluorophenol	75.7%
2,4,6-Tribromophenol	92.8%	d4-2-Chlorophenol	82.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031405
LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted LCS/LCSD: 03/14/05

Date Analyzed LCS: 03/16/05 09:30
LCSD: 03/16/05 10:02
Instrument/Analyst LCS: NT4/Van
LCSD: NT4/Van
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	26.4	37.5	70.4%	26.8	37.5	71.5%	1.5%
2-Chlorophenol	28.2	37.5	75.2%	27.6	37.5	73.6%	2.2%
1,4-Dichlorobenzene	14.0	25.0	56.0%	14.6	25.0	58.4%	4.2%
N-Nitroso-Di-N-Propylamine	19.5	25.0	78.0%	19.7	25.0	78.8%	1.0%
1,2,4-Trichlorobenzene	15.0	25.0	60.0%	15.6	25.0	62.4%	3.9%
4-Chloro-3-methylphenol	32.6	37.5	86.9%	32.8	37.5	87.5%	0.6%
Acenaphthene	20.0	25.0	80.0%	19.7	25.0	78.8%	1.5%
4-Nitrophenol	36.3	37.5	96.8%	40.0	37.5	107%	9.7%
2,4-Dinitrotoluene	22.1	25.0	88.4%	22.0	25.0	88.0%	0.5%
Pentachlorophenol	28.7	37.5	76.5%	30.1	37.5	80.3%	4.8%
Phenanthrene	2.8	3.0	93.3%	2.8	3.0	93.3%	0.7%
Pyrene	22.2	25.0	88.8%	22.0	25.0	88.0%	0.9%
Chrysene	2.9	3.0	96.7%	3.0	3.0	100%	3.0%
Benzo(k)fluoranthene	2.7	3.0	90.0%	2.7	3.0	90.0%	1.9%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	82.0%	76.0%
2-Fluorobiphenyl	78.0%	74.4%
d14-p-Terphenyl	96.4%	91.6%
d4-1,2-Dichlorobenzene	70.8%	60.8%
d5-Phenol	76.3%	73.1%
2-Fluorophenol	72.8%	70.4%
2,4,6-Tribromophenol	92.3%	89.1%
d4-2-Chlorophenol	77.6%	73.9%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

Client ID	MNP	DBA	TOT OUT
MB-031405	81.3%	122%	0
LCS-031405	86.3%	122%	0
LCSD-031405	74.3%	114%	0
SY-DP-01-15	72.7%	81.7%	0
SY-DP-09-15	80.7%	99.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-4562 to 05-4563

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 11:41
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	81.3%
d14-Dibenzo(a,h)anthracene	122%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:21
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	72.7%
d14-Dibenzo(a,h)anthracene	81.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:47
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	80.7%
d14-Dibenzo(a,h)anthracene	99.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-031405
LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted LCS/LCSD: 03/14/05
Date Analyzed LCS: 03/16/05 12:07
LCSD: 03/16/05 12:35
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.79	3.00	93.0%	2.78	3.00	92.7%	0.4%
Chrysene	2.91	3.00	97.0%	2.71	3.00	90.3%	7.1%
Benzo(k)fluoranthene	2.55	3.00	85.0%	2.59	3.00	86.3%	1.6%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	86.3%	74.3%
d14-Dibenzo(a,h)anthracene	122%	114%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

Client ID	DCBP	TCMX	TOT OUT
MB-031405	151%*	102%	1
LCS-031405	105%	80.2%	0
SY-DP-01-15	46.5%	71.0%	0
SY-DP-09-15	75.0%	69.8%	0
SY-DP-10-18	77.2%	62.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-4562 to 05-4564

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031405
METHOD BLANK

Lab Sample ID: MB-031405
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Date Extracted: 03/14/05
Date Analyzed: 03/15/05 23:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	151%
Tetrachlorometaxylene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:41
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	46.5%
Tetrachlorometaxylene	71.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.0%
Tetrachlorometaxylene	69.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-10-18
SAMPLE

Lab Sample ID: HU86C
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 03:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.2%
Tetrachlorometaxylene	62.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-031405
LCS/LCSD

Lab Sample ID: LCS-031405
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/14/05

Date Analyzed LCS: 03/15/05 23:52
LCSD: 03/16/05 00:09
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.50	5.12	87.9%	4.61	5.12	90.0%	2.4%
Aroclor 1260	4.88	5.12	95.3%	5.16	5.12	101%	5.6%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	105%	99.2%
Tetrachlorometaxylene	80.2%	84.2%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

DISSOLVED METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-01-15-F
SAMPLE

Lab Sample ID: HU86F
LIMS ID: 05-4567
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	36.1	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
6010B	03/14/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	1,250	
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	0.6	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	13	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	11	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-09-15-F
SAMPLE

Lab Sample ID: HU86G
LIMS ID: 05-4568
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**20.8**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
6010B	03/14/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**1,780**	
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**6**	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**15**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-10-18-F
SAMPLE

Lab Sample ID: HU86H
LIMS ID: 05-4569
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**9.4**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
6010B	03/14/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**2,290**	
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**15**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-11-17-F
SAMPLE

Lab Sample ID: HU86I
LIMS ID: 05-4570
Matrix: Water
Data Release Authorized
Reported: 06/13/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**85.0**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	**7440-47-3**	**Chromium**	5	**8**	
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
6010B	03/14/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**1,260**	
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**4.9**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**37**	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**45**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-12-15-F
SAMPLE

Lab Sample ID: HU86J
LIMS ID: 05-4571
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**15.8**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
6010B	03/14/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**2,210**	
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**2.5**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**15**	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**21**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: HU86MB
LIMS ID: 05-4567
Matrix: Water
Data Release Authorized
Reported: 06/13/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-38-2	Arsenic	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
6010B	03/14/05	6010B	03/17/05	7439-96-5	Manganese	1	1	U
200.8	03/14/05	200.8	03/18/05	7440-02-0	Nickel	0.5	0.5	U
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
3010A	03/14/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HU86LCS
LIMS ID: 05-4567
Matrix: Water
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2080	2000	104%	
Arsenic	200.8	27.0	25.0	108%	
Beryllium	6010B	500	500	100%	
Cadmium	6010B	517	500	103%	
Chromium	6010B	495	500	99.0%	
Copper	200.8	26.3	25.0	105%	
Lead	200.8	28	25	112%	
Manganese	6010B	496	500	99.2%	
Nickel	200.8	25.9	25.0	104%	
Selenium	6010B	2080	2000	104%	
Silver	200.8	26.3	25.0	105%	
Thallium	6010B	1990	2000	99.5%	
Vanadium	6010B	518	500	104%	
Zinc	6010B	488	500	97.6%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HU86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/09/05

Project: P2DG-South Yard Area
Event: 17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Client ID: SY-DP-01-15
ARI ID: 05-4562 HU86A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/08/05 030805#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HU86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: alt
Reported: 03/09/05

Project: P2DG-South Yard Area
Event: 17305
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/08/05	mg/L	< 0.010 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
HU86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/09/05

Project: P2DG-South Yard Area
Event: 17305
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/08/05	mg/L	0.564	0.560	100.7%

REPLICATE RESULTS-CONVENTIONALS
HU86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/09/05

Project: P2DG-South Yard Area
Event: 17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HU86A Client ID: SY-DP-01-15					
Hexavalent Chrome	03/08/05	mg/L	< 0.011	< 0.011	NA

MS/MSD RESULTS-CONVENTIONALS
HU86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/09/05

Project: P2DG-South Yard Area
Event: 17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HU86A Client ID: SY-DP-01-15						
Hexavalent Chrome	03/08/05	mg/L	< 0.011	< 0.011 U	0.620	NA

LOW LEVEL MERCURY

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0370

ARI Client: The Boeing Company
ARI Project ID: HU86

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-DP-01-15-F	3/8/2005	05BR0370 - 1	3/9/05
SY-DP-09-15-F	3/8/2005	05BR0370 - 2	3/9/05
SY-DP-10-18-F	3/8/2005	05BR0370 - 3	3/9/05
SY-DP-11-17-F	3/8/2005	05BR0370 - 4	3/9/05
SY-DP-12-15-F	3/8/2005	05BR0370 - 5	3/9/05

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0370

ARI Client: The Boeing Company
ARI Project ID: HU86

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-DP-01-15-F	05BR0370 - 1	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-09-15-F	05BR0370 - 2	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-10-18-F	05BR0370 - 3	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-11-17-F	05BR0370 - 4	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-12-15-F	05BR0370 - 5	3/14/05	3/15/05	05-0140	25.000	ng/L	U

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0140
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0366, 05BR0370, 05BR0371, 05BR0381, 05BR0382, 05BR0383 & 05BR0384
Project:	ARI004, GLT002, LOV001, BCT001, LAF001 & NEL002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 15, 2005
Calibration Date:	Match 14, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

A dark blue precipitate was formed after the addition of $SnCl_2$ to sample **05BR0383-01** at full volume. When 1 mL of the sample was analyzed, no precipitate was formed and the result was within calibration. On this basis, this sample has not been qualified.

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.16.05

Tressa K. Pearson-Franks
Quality Assurance Associate

000065

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 25, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (013-1646-002.200)
ARI Job No: HU97

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted fifteen soil samples and a trip blank in good condition on March 8, 2005. The samples were received at a cooler temperature of 8.0°C.

As requested, the samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, total priority pollutant metals, and Hexavalent chrome.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU97

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: H497	Turn-around Requested: STANDARD
ARI Client Company: GOLDER ASSOCIATES	Phone: 425-883-0777
Client Contact: TED NORTON	
Client Project Name: P2DG - SOUTH YARD AREA	
Client Project #: 013-1646-002.200	Samplers: CSK

Page: 1 of 2

Date: 3/8/05 | Ice Present? YES

No. of Coolers: | Cooler Temps: 2.0

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs (8260B)	SVOCs (8270C) SIM	PCBs (8082)	Priority Pollutant Metals 200.7/200.8/6010/7000 Series	Chromium III (7196)				Notes/Comments
DP-SY-1-1	3/8/05	8:01am	Soil	3	✓	✓	✓	✓	✓				Sampling Interval 0-1 foot
DP-SY-1-5	3/8/05	7:48am	Soil	3	✓	✓	✓	✓	✓				Samp. Int 4-5 ft.
DP-SY-1-10	3/8/05	7:55am	Soil	3	✓	✓	✓	✓	✓				Samp. Int 9-10 ft.
DP-SY-9-1	3/8/05	9:30am	Soil	2	✓	✓	✓	✓					Samp Int. 0-1 ft.
DP-SY-9-5	3/8/05	9:33am	Soil	2	✓	✓	✓	✓					Samp Int 4-5 ft.
DP-SY-9-10	3/8/05	9:38am	Soil	2	✓	✓	✓	✓					Samp. Int 9-10 ft.
DP-SY-10-1	3/8/05	10:50am	Soil	2	✓		✓	✓					Samp. Int. 0-1 ft
DP-SY-10-5	3/8/05	11:00am	Soil	2	✓		✓	✓					Samp. Int. 4-5 ft.
DP-SY-10-10	3/8/05	11:04am	Soil	2	✓		✓	✓					Samp. Int. 9-10 ft
DP-SY-11-1	3/8/05	12:40pm	Soil	2	✓		(X)	✓					Samp. Int. 0-1 ft.

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by (Signature)	Received by: (Signature)
Dist. TO DAN M.				
(X) - PCB added per Ted Norton email 3/9/05	Printed Name: CHRIS KING	Printed Name: ERIC BRANSON	Printed Name:	Printed Name:
	Company: GOLDER ASS.	Company: ARI	Company:	Company:
	Date & Time: 3/8/05 3:40pm	Date & Time: 3/8/05 - 1548	Date & Time:	Date & Time:

000002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: H1197	Turn-around Requested: STANDARD
ARI Client Company: GOLDER ASSOCIATES	Phone: 425-883-0777
Client Contact: TED NORTON	
Client Project Name: PZDG - SOUTH YARD AREA	
Client Project #: 013-1646-002-200	Samplers: CSK

Page: ~~1~~ 2	of 2
Date: 3/8/05	Ice Present? Y (E)
No. of Coolers: 1 ~~B~~	Cooler Temps: 3.8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs (8260B)	SVOCs (8270C) SIM	PCBs (8082)	Priority Pollutant metals 200.8/ 3500/6010/7000 Series					Notes/Comments
DP-SY-11-5	3/8/05	12:42pm	SOIL	2	✓		⊗	✓					Sampling Interval 4-5 feet
DP-SY-11-10	3/8/05	12:48pm	SOIL	2	✓		⊗	✓					Samp. Int 9-10 ft
DP-SY-12-1	3/8/05	1:43pm	SOIL	2	✓		⊗	✓					Samp Int. 0-1 ft
DP-SY-12-5	3/8/05	1:46pm	SOIL	2	✓		⊗	✓					Samp Int 4-5 ft.
DP-SY-12-10	3/8/05	1:52pm	SOIL	2	✓		⊗	✓					Samp. Int 9-10 ft.

Comments/Special instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by (Signature)	Received by: (Signature)
Distribute to Dan M.				
(*) PCB added per Ted Norton email 03/9/05	Printed Name: CHRIS KING	Printed Name: ERIC BRANSON	Printed Name	Printed Name
	Company: GOLDER ASS.	Company: ARI	Company:	Company:
	Date & Time: 3/8/05 3:40pm	Date & Time: 3/8/05 1544	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereot, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Stephanie Lucas

From: "Norton, Ted" <TNorton@golder.com>
To: "Stephanie Lucas" <steph@arilabs.com>
Cc: "Angelos, Kent" <kmangelos@golder.com>; "Doug Kunkel" <dkunkel@epi-wa.com>
Sent: Wednesday, March 09, 2005 2:10 PM
Subject: Additional analysis request for south yard samples

Hello Stephanie:

I reviewed the COCs for the soil samples Chris King turned in for March 8th, 2005 for P2DG - South Yard Area. Chris inadvertently missed checking the column for PCB analysis for the following samples.

DP-SY-11-1
DP-SY-11-5
DP-SY-11-10
DP-SY-12-1
DP-SY-12-5
DP-SY-12-10

Could you please make sure these samples are analyzed for PCBs? All six samples were submitted for priority pollutant metals analysis, so I am assuming that there is enough sample material to also conduct the PCB analysis. Please let me know if I am incorrect in my assumption.

Ted Norton

Golder Associates Inc.

(425) 883-0777 (p)

(425) 882-5498 (f)

(206) 755-4970 (cell)

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU97

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (013-1646-002.200)
ARI Job No.: HU97
March 30, 2005

Volatile Organics by Method 8260B:

The samples were analyzed between 3/17/05 and 3/20/05 within the method recommended holding time. The trip blank was made by ARI on 3/1/05.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-1-1**. The percent recoveries for vinyl acetate were low in both the MS and MSD. No corrective action was taken. All percent recoveries and RPDs for the analytes of interest were in control.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The soil samples were screened prior to extraction on 3/15/05. The samples were analyzed between 3/21/05 and 3/22/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-1-1**. All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): The 2,4-dinitrotoluene RPD is above the 40% limit in the **3/21/05 LCS/LCSD**. As the individual percent recoveries were compliant, no corrective action was taken. All other percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The soil samples were screened prior to extraction on 3/15/05. The samples were analyzed between 3/18/05 and 3/22/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: Benzo(b)fluoranthene and benzo(k)fluoranthene are "M" flagged in sample **DP-SY-1-1.** The "M" indicates an estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters.

There were no other anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-1-1**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The soil samples were screened prior to extraction on 3/15/05. The samples were analyzed on 3/17/05 and 3/18/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: here were no anomalies associated with these samples.

Matrix Spikes: The matrix spike and matrix spike duplicate were analyzed in association with sample **DP-SY-11-1**. All percent recoveries and RPDs were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs were within compliance.

Total Metals by Methods 6010 and 7471

The samples were prepared on 3/18/05 and 3/24/05 and were analyzed between 3/22/05 and 3/25/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of the element contamination.

Samples: No anomalies were encountered for these samples.

Matrix Spike: A matrix spike was analyzed in association with sample **DP-SY-1-1**. The sample, MS, and MD were initially prepared on 3/18/05 and analyzed on 3/22/05. The initial MS had percent recoveries out of control for antimony (29%), copper (72%) and magnesium (165%). The sample, MS and MD were re-prepared on 3/24/05 and re-analyzed on 3/25/05. The copper and magnesium percent recoveries were compliant in the re-prepared and re-analyzed samples. The 3/25/05 analysis is reported.

The percent recovery for antimony was low in both MS's. The percent recovery for antimony was recovered within the established advisory range for the corresponding LCS. Since it is expected and documented that antimony is not recovered adequately in the sediment or solid matrix using prep method 3050B, no corrective actions were taken based on the antimony recovery in the MS. If antimony is a metal of particular concern, an alternative and stronger preparation would be recommended for this element only.

The aluminum percent recoveries were out of control in the MS associated with both analyses due to the large amount of aluminum present in the native samples in relation to the amount of spike added. No corrective action was taken.

Matrix Duplicate: The matrix duplicate analyzed in association with sample **DP-SY-1-1**. The sample, MS and MD were initially prepared on 3/18/05 and analyzed on 3/22/05. The initial MD had an out of control copper RPD. The sample, MS and MD were re-prepared on 3/24/05 and re-analyzed on 3/25/05. All RPDs were in control in the re-prepared and re-analyzed analysis. The 3/25/05 analysis is reported.

LCS/Blank Spike(s): All percent recoveries were within compliance

Hexavalent Chrome

The samples were analyzed on 3/11/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of the element contamination.

Samples: No anomalies were encountered for these samples.

SRM/Replicate/: All percent recoveries were within compliance.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 013-1646-002.200

ARI JOB NO: HU97

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

SW8260 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCE	TOL	BFB	DCB	TOT OUT
MB-031705	114%	106%	108%	104%	0
LCS-031705	120%	111%	109%	105%	0
LCSD-031705	119%	111%	112%	105%	0
DP-SY-1-1	134%	112%	108%	103%	0
DP-SY-1-1 MS	123%	109%	109%	104%	0
DP-SY-1-1 MSD	119%	105%	111%	105%	0
DP-SY-1-5	132%	107%	99.1%	101%	0
DP-SY-1-10	131%	115%	107%	104%	0
DP-SY-9-1	134%	118%	109%	102%	0
DP-SY-9-5	130%	112%	108%	103%	0
MB-031805	127%	105%	108%	104%	0
LCS-031805	117%	110%	107%	104%	0
LCSD-031805	115%	114%	108%	104%	0
DP-SY-9-10	119%	106%	95.9%	101%	0
DP-SY-10-1	128%	110%	104%	102%	0
DP-SY-10-5	130%	110%	103%	101%	0
DP-SY-10-10	132%	109%	105%	102%	0
DP-SY-11-1	133%	112%	105%	100%	0
DP-SY-11-5	112%	102%	96.1%	93.2%	0
DP-SY-11-10	110%	99.5%	88.8%	90.2%	0
DP-SY-12-1	117%	104%	99.1%	93.3%	0
DP-SY-12-5	118%	104%	97.8%	94.5%	0
MB-032005	107%	101%	96.3%	96.8%	0
LCS-032005	91.5%	96.6%	98.5%	95.7%	0
LCSD-032005	95.2%	99.3%	98.9%	96.1%	0
DP-SY-12-10	116%	102%	95.8%	95.7%	0

	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(74-128)	(71-143)
(TOL) = d8-Toluene	(76-119)	(79-118)
(BFB) = Bromofluorobenzene	(78-116)	(69-126)
(DCB) = d4-1,2-Dichlorobenzene	(78-122)	(79-119)

Prep Method: SW5030
Analytical Method: SW8260B
Log Number Range: 05-4614 to 05-4628

000013

FORM-II SW8260

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL QC Report No: HU97

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
HU97P	Trip Blank	123%	110%	110%	102%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-031705
METHOD BLANK

Lab Sample ID: MB-031705
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 13:48

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	106%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 13:07

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	105%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032005
METHOD BLANK

Lab Sample ID: MB-032005
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 13:32

Sample Amount: 5.00 g
Percent Moisture: NA

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	101%
Bromofluorobenzene	96.3%
d4-1,2-Dichlorobenzene	96.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 19:22

Sample Amount: 4.85 g-dry-wt
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.2	< 5.2 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	134%
d8-Toluene	112%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-1-1
MATRIX SPIKE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 19:49

Sample Amount: 4.65 g-dry-wt
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	---
74-83-9	Bromomethane	1.1	---
75-01-4	Vinyl Chloride	1.1	---
75-00-3	Chloroethane	1.1	---
75-09-2	Methylene Chloride	2.2	---
67-64-1	Acetone	5.4	---
75-15-0	Carbon Disulfide	1.1	---
75-35-4	1,1-Dichloroethene	1.1	---
75-34-3	1,1-Dichloroethane	1.1	---
156-60-5	trans-1,2-Dichloroethene	1.1	---
156-59-2	cis-1,2-Dichloroethene	1.1	---
67-66-3	Chloroform	1.1	---
107-06-2	1,2-Dichloroethane	1.1	---
78-93-3	2-Butanone	5.4	---
71-55-6	1,1,1-Trichloroethane	1.1	---
56-23-5	Carbon Tetrachloride	1.1	---
108-05-4	Vinyl Acetate	5.4	---
75-27-4	Bromodichloromethane	1.1	---
78-87-5	1,2-Dichloropropane	1.1	---
10061-01-5	cis-1,3-Dichloropropene	1.1	---
79-01-6	Trichloroethene	1.1	---
124-48-1	Dibromochloromethane	1.1	---
79-00-5	1,1,2-Trichloroethane	1.1	---
71-43-2	Benzene	1.1	---
10061-02-6	trans-1,3-Dichloropropene	1.1	---
110-75-8	2-Chloroethylvinylether	5.4	---
75-25-2	Bromoform	1.1	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	---
591-78-6	2-Hexanone	5.4	---
127-18-4	Tetrachloroethene	1.1	---
79-34-5	1,1,2,2-Tetrachloroethane	1.1	---
108-88-3	Toluene	1.1	---
108-90-7	Chlorobenzene	1.1	---
100-41-4	Ethylbenzene	1.1	---
100-42-5	Styrene	1.1	---
75-69-4	Trichlorofluoromethane	1.1	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	---
1330-20-7	m,p-Xylene	1.1	---
95-47-6	o-Xylene	1.1	---

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	109%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-1-1
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 20:17

Sample Amount: 4.64 g-dry-wt
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	---
74-83-9	Bromomethane	1.1	---
75-01-4	Vinyl Chloride	1.1	---
75-00-3	Chloroethane	1.1	---
75-09-2	Methylene Chloride	2.2	---
67-64-1	Acetone	5.4	---
75-15-0	Carbon Disulfide	1.1	---
75-35-4	1,1-Dichloroethene	1.1	---
75-34-3	1,1-Dichloroethane	1.1	---
156-60-5	trans-1,2-Dichloroethene	1.1	---
156-59-2	cis-1,2-Dichloroethene	1.1	---
67-66-3	Chloroform	1.1	---
107-06-2	1,2-Dichloroethane	1.1	---
78-93-3	2-Butanone	5.4	---
71-55-6	1,1,1-Trichloroethane	1.1	---
56-23-5	Carbon Tetrachloride	1.1	---
108-05-4	Vinyl Acetate	5.4	---
75-27-4	Bromodichloromethane	1.1	---
78-87-5	1,2-Dichloropropane	1.1	---
10061-01-5	cis-1,3-Dichloropropene	1.1	---
79-01-6	Trichloroethene	1.1	---
124-48-1	Dibromochloromethane	1.1	---
79-00-5	1,1,2-Trichloroethane	1.1	---
71-43-2	Benzene	1.1	---
10061-02-6	trans-1,3-Dichloropropene	1.1	---
110-75-8	2-Chloroethylvinylether	5.4	---
75-25-2	Bromoform	1.1	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	---
591-78-6	2-Hexanone	5.4	---
127-18-4	Tetrachloroethene	1.1	---
79-34-5	1,1,2,2-Tetrachloroethane	1.1	---
108-88-3	Toluene	1.1	---
108-90-7	Chlorobenzene	1.1	---
100-41-4	Ethylbenzene	1.1	---
100-42-5	Styrene	1.1	---
75-69-4	Trichlorofluoromethane	1.1	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	---
1330-20-7	m,p-Xylene	1.1	---
95-47-6	o-Xylene	1.1	---

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	105%
Bromofluorobenzene	111%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 20:44

Sample Amount: 4.00 g-dry-wt
Percent Moisture: 25.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.5	< 2.5 U
67-64-1	**Acetone**	**6.2**	**150**
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	**2-Butanone**	**6.2**	**37**
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.2	< 6.2 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	Trichloroethene	1.2	< 1.2 U
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.2	< 6.2 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.2	< 6.2 U
591-78-6	2-Hexanone	6.2	< 6.2 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	107%
Bromofluorobenzene	99.1%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 21:12

Sample Amount: 3.92 g-dry-wt
Percent Moisture: 22.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	**Acetone**	**6.4**	**56**
75-15-0	Carbon Disulfide	1.3	< 1.3 U
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	**2-Butanone**	**6.4**	**11**
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.4	< 6.4 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	Trichloroethene	1.3	< 1.3 U
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.4	< 6.4 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.4	< 6.4 U
591-78-6	2-Hexanone	6.4	< 6.4 U
127-18-4	Tetrachloroethene	1.3	< 1.3 U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	115%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 21:39

Sample Amount: 5.00 g-dry-wt
Percent Moisture: 4.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**6.2**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	134%
d8-Toluene	118%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 22:07

Sample Amount: 3.94 g-dry-wt
Percent Moisture: 22.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.5	< 2.5 U
67-64-1	Acetone	6.3	< 6.3 U
75-15-0	Carbon Disulfide	1.3	< 1.3 U
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	2-Butanone	6.3	< 6.3 U
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.3	< 6.3 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	Trichloroethene	1.3	< 1.3 U
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.3	< 6.3 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.3	< 6.3 U
591-78-6	2-Hexanone	6.3	< 6.3 U
127-18-4	Tetrachloroethene	1.3	< 1.3 U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	112%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-9-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 20:07

Sample Amount: 4.22 g-dry-wt
Percent Moisture: 21.1%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.4	< 2.4 U
67-64-1	**Acetone**	**5.9**	**120**
75-15-0	**Carbon Disulfide**	**1.2**	**5.7**
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	**2-Butanone**	**5.9**	**25**
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	5.9	< 5.9 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	Trichloroethene	1.2	< 1.2 U
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	5.9	< 5.9 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.9	< 5.9 U
591-78-6	2-Hexanone	5.9	< 5.9 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.4	< 2.4 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	106%
Bromofluorobenzene	95.9%
d4-1,2-Dichlorobenzene	101%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-10-1
SAMPLE

Lab Sample ID: HU97G
LIMS ID: 05-4620
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 20:34

Sample Amount: 4.67 g-dry-wt
Percent Moisture: 8.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.4	< 5.4 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**1.2**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	110%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-10-5
SAMPLE

Lab Sample ID: HU97H
LIMS ID: 05-4621
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 21:02

Sample Amount: 4.62 g-dry-wt
Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	Acetone	5.4	< 5.4 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**3.5**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	**Tetrachloroethene**	**1.1**	**2.0**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	110%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-10-10
SAMPLE

Lab Sample ID: HU97I
LIMS ID: 05-4622
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 21:30

Sample Amount: 4.82 g-dry-wt
Percent Moisture: 6.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	**Acetone**	**5.2**	**7.5**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	109%
Bromofluorobenzene	105%
d4-1,2-Dichlorobenzene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-11-1
SAMPLE

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 21:57

Sample Amount: 4.61 g-dry-wt
Percent Moisture: 12.9%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	**Acetone**	**5.4**	**6.4**
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	**1,1,1-Trichloroethane**	**1.1**	**1.2**
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**4.0**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	**Tetrachloroethene**	**1.1**	**3.1**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	133%
d8-Toluene	112%
Bromofluorobenzene	105%
d4-1,2-Dichlorobenzene	100%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-11-5
SAMPLE

Lab Sample ID: HU97K
LIMS ID: 05-4624
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 14:50

Sample Amount: 4.56 g-dry-wt
Percent Moisture: 15.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	**Acetone**	**5.5**	**6.9**
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.5	< 5.5 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.5	< 5.5 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**1.4**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5 U
591-78-6	2-Hexanone	5.5	< 5.5 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1 1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	102%
Bromofluorobenzene	96.1%
d4-1,2-Dichlorobenzene	93.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-11-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU97L
LIMS ID: 05-4625
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 15:18

Sample Amount: 3.68 g-dry-wt
Percent Moisture: 29.1%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	**Vinyl Chloride**	**1.4**	**2.2**
75-00-3	**Chloroethane**	**1.4**	**3.9**
75-09-2	Methylene Chloride	2.7	< 2.7 U
67-64-1	**Acetone**	**6.8**	**210**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	**1,1-Dichloroethane**	**1.4**	**6.1**
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	**cis-1,2-Dichloroethene**	**1.4**	**3.4**
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**6.8**	**54**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	6.8	< 6.8 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	6.8	< 6.8 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.8	< 6.8 U
591-78-6	2-Hexanone	6.8	< 6.8 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	**Toluene**	**1.4**	**2.2**
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.7	< 2.7 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	99.5%
Bromofluorobenzene	88.8%
d4-1,2-Dichlorobenzene	90.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-12-1
SAMPLE

Lab Sample ID: HU97M
LIMS ID: 05-4626
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 15:45

Sample Amount: 5.04 g-dry-wt
Percent Moisture: 2.2%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1 0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	104%
Bromofluorobenzene	99.1%
d4-1,2-Dichlorobenzene	93.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-12-5
SAMPLE

Lab Sample ID: HU97N
LIMS ID: 05-4627
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 16:13

Sample Amount: 4.85 g-dry-wt
Percent Moisture: 4.2%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	**Acetone**	**5.2**	**5.6**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1 0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5 2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	104%
Bromofluorobenzene	97.8%
d4-1,2-Dichlorobenzene	94.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-12-10
SAMPLE

Lab Sample ID: HU970
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 16:40

Sample Amount: 4.01 g-dry-wt
Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.5	< 2.5 U
67-64-1	**Acetone**	**6.2**	**37**
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	**1,1-Dichloroethane**	**1.2**	**4.6**
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	**cis-1,2-Dichloroethene**	**1.2**	**2.0**
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	**2-Butanone**	**6.2**	**7.3**
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.2	< 6.2 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	**Trichloroethene**	**1.2**	**2.1**
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.2	< 6.2 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.2	< 6.2 U
591-78-6	2-Hexanone	6.2	< 6.2 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	102%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	95.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: Trip Blank SAMPLE

Lab Sample ID: HU97P
LIMS ID: 05-4629
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area 013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 13:35

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	110%
Bromofluorobenzene	110%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-1-1
MS/MSD

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Instrument/Analyst MS: FINN5/JA
MSD: FINN5/JA
Date Analyzed MS: 03/17/05 19:49
MSD: 03/17/05 20:17

Sample Amount MS: 4.65 g-dry-wt
MSD: 4.64 g-dry-wt
Moisture: 7.7%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.0	40.8	53.8	75.8%	44.1	53.9	81.8%	7.8%
Bromomethane	< 1.0	45.5	53.8	84.6%	49.4	53.9	91.7%	8.2%
Vinyl Chloride	< 1.0	54.7	53.8	102%	59.1	53.9	110%	7.7%
Chloroethane	< 1.0	54.2	53.8	101%	57.1	53.9	106%	5.2%
Methylene Chloride	< 2.1	54.6	53.8	101%	56.7	53.9	105%	3.8%
Acetone	< 5.2	304	269	113%	287	269	107%	5.8%
Carbon Disulfide	< 1.0	49.1	53.8	91.3%	52.2	53.9	96.8%	6.1%
1,1-Dichloroethene	< 1.0	48.6	53.8	90.3%	51.5	53.9	95.5%	5.8%
1,1-Dichloroethane	< 1.0	54.7	53.8	102%	57.7	53.9	107%	5.3%
trans-1,2-Dichloroethene	< 1.0	51.8	53.8	96.3%	52.5	53.9	97.4%	1.3%
cis-1,2-Dichloroethene	< 1.0	52.6	53.8	97.8%	56.4	53.9	105%	7.0%
Chloroform	< 1.0	53.9	53.8	100%	58.5	53.9	109%	8.2%
1,2-Dichloroethane	< 1.0	59.1	53.8	110%	57.5	53.9	107%	2.7%
2-Butanone	< 5.2	279	269	104%	276	269	103%	1.1%
1,1,1-Trichloroethane	< 1.0	53.0	53.8	98.5%	56.0	53.9	104%	5.5%
Carbon Tetrachloride	< 1.0	50.8	53.8	94.4%	52.2	53.9	96.8%	2.7%
Vinyl Acetate	< 5.2	19.0	53.8	35.3%	16.1	53.9	29.9%	16.5%
Bromodichloromethane	< 1.0	55.3	53.8	103%	55.1	53.9	102%	0.4%
1,2-Dichloropropane	< 1.0	51.4	53.8	95.5%	54.6	53.9	101%	6.0%
cis-1,3-Dichloropropene	< 1.0	52.9	53.8	98.3%	53.8	53.9	99.8%	1.7%
Trichloroethene	< 1.0	51.5	53.8	95.7%	53.4	53.9	99.1%	3.6%
Dibromochloromethane	< 1.0	51.4	53.8	95.5%	54.0	53.9	100%	4.9%
1,1,2-Trichloroethane	< 1.0	54.8	53.8	102%	54.6	53.9	101%	0.4%
Benzene	< 1.0	48.9	53.8	90.9%	49.1	53.9	91.1%	0.4%
trans-1,3-Dichloropropene	< 1.0	52.2	53.8	97.0%	51.5	53.9	95.5%	1.4%
2-Chloroethylvinylether	< 5.2	52.2	53.8	97.0%	51.8	53.9	96.1%	0.8%
Bromoform	< 1.0	50.0	53.8	92.9%	50.3	53.9	93.3%	0.6%
4-Methyl-2-Pentanone (MIBK)	< 5.2	277	269	103%	280	269	104%	1.1%
2-Hexanone	< 5.2	259	269	96.3%	262	269	97.4%	1.2%
Tetrachloroethene	< 1.0	47.2	53.8	87.7%	49.3	53.9	91.5%	4.4%
1,1,2,2-Tetrachloroethane	< 1.0	54.7	53.8	102%	55.2	53.9	102%	0.9%
Toluene	< 1.0	51.1	53.8	95.0%	50.8	53.9	94.2%	0.6%
Chlorobenzene	< 1.0	48.9	53.8	90.9%	51.7	53.9	95.9%	5.6%
Ethylbenzene	< 1.0	52.8	53.8	98.1%	56.1	53.9	104%	6.1%
Styrene	< 1.0	51.1	53.8	95.0%	55.3	53.9	103%	7.9%
Trichlorofluoromethane	< 1.0	54.4	53.8	101%	56.1	53.9	104%	3.1%
1,1,2-Trichloro-1,2,2-trifl	< 2.1	50.7	53.8	94.2%	51.7	53.9	95.9%	2.0%
m,p-Xylene	< 1.0	101	108	93.5%	111	108	103%	9.4%
o-Xylene	< 1.0	50.0	53.8	92.9%	53.7	53.9	99.6%	7.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-031705
LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
LCSD: FINN5/JA
Date Analyzed: 03/17/05 12:34
LCSD: 03/17/05 13:20

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	48.8	50.0	97.6%	45.5	50.0	91.0%	7.0%
Bromomethane	51.8	50.0	104%	51.7	50.0	103%	0.2%
Vinyl Chloride	61.4	50.0	123%	58.8	50.0	118%	4.3%
Chloroethane	62.0	50.0	124%	59.9	50.0	120%	3.4%
Methylene Chloride	57.7	50.0	115%	56.6	50.0	113%	1.9%
Acetone	299	250	120%	277	250	111%	7.6%
Carbon Disulfide	58.0	50.0	116%	56.1	50.0	112%	3.3%
1,1-Dichloroethene	54.9	50.0	110%	54.8	50.0	110%	0.2%
1,1-Dichloroethane	56.9	50.0	114%	58.4	50.0	117%	2.6%
trans-1,2-Dichloroethene	55.5	50.0	111%	55.4	50.0	111%	0.2%
cis-1,2-Dichloroethene	57.1	50.0	114%	57.7	50.0	115%	1.0%
Chloroform	60.0	50.0	120%	58.8	50.0	118%	2.0%
1,2-Dichloroethane	56.8	50.0	114%	56.3	50.0	113%	0.9%
2-Butanone	277	250	111%	266	250	106%	4.1%
1,1,1-Trichloroethane	58.8	50.0	118%	58.1	50.0	116%	1.2%
Carbon Tetrachloride	55.0	50.0	110%	54.5	50.0	109%	0.9%
Vinyl Acetate	53.9	50.0	108%	54.2	50.0	108%	0.6%
Bromodichloromethane	56.9	50.0	114%	55.9	50.0	112%	1.8%
1,2-Dichloropropane	54.1	50.0	108%	53.9	50.0	108%	0.4%
cis-1,3-Dichloropropene	53.7	50.0	107%	53.7	50.0	107%	0.0%
Trichloroethene	55.5	50.0	111%	52.9	50.0	106%	4.8%
Dibromochloromethane	52.9	50.0	106%	50.9	50.0	102%	3.9%
1,1,2-Trichloroethane	55.4	50.0	111%	52.4	50.0	105%	5.6%
Benzene	50.4	50.0	101%	50.0	50.0	100%	0.8%
trans-1,3-Dichloropropene	56.2	50.0	112%	53.0	50.0	106%	5.9%
2-Chloroethylvinylether	51.7	50.0	103%	51.0	50.0	102%	1.4%
Bromoform	51.6	50.0	103%	50.4	50.0	101%	2.4%
4-Methyl-2-Pentanone (MIBK)	276	250	110%	264	250	106%	4.4%
2-Hexanone	251	250	100%	248	250	99.2%	1.2%
Tetrachloroethene	50.6	50.0	101%	52.6	50.0	105%	3.9%
1,1,2,2-Tetrachloroethane	55.9	50.0	112%	53.0	50.0	106%	5.3%
Toluene	55.0	50.0	110%	54.5	50.0	109%	0.9%
Chlorobenzene	53.2	50.0	106%	55.6	50.0	111%	4.4%
Ethylbenzene	57.0	50.0	114%	57.3	50.0	115%	0.5%
Styrene	57.5	50.0	115%	58.2	50.0	116%	1.2%
Trichlorofluoromethane	65.4	50.0	131%	61.8	50.0	124%	5.7%
1,1,2-Trichloro-1,2,2-trifl	60.6	50.0	121%	59.5	50.0	119%	1.8%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031705**
 LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4614
Matrix: Soil
Date Analyzed: 03/17/05 12:34
LCSD: 03/17/05 13:20

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	115	100	115%	116	100	116%	0.9%
o-Xylene	54.0	50.0	108%	54.9	50.0	110%	1.7%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	120%	119%
d8-Toluene	111%	111%
Bromofluorobenzene	109%	112%
d4-1,2-Dichlorobenzene	105%	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
LCSD: FINN5/JA
Date Analyzed: 03/18/05 12:06
LCSD: 03/18/05 12:40

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	42.0	50.0	84.0%	39.9	50.0	79.8%	5.1%
Bromomethane	56.1	50.0	112%	48.5	50.0	97.0%	14.5%
Vinyl Chloride	56.3	50.0	113%	55.9	50.0	112%	0.7%
Chloroethane	60.8	50.0	122%	57.0	50.0	114%	6.5%
Methylene Chloride	57.8	50.0	116%	57.9	50.0	116%	0.2%
Acetone	284	250	114%	283	250	113%	0.4%
Carbon Disulfide	56.2	50.0	112%	54.4	50.0	109%	3.3%
1,1-Dichloroethene	55.1	50.0	110%	55.4	50.0	111%	0.5%
1,1-Dichloroethane	57.7	50.0	115%	57.2	50.0	114%	0.9%
trans-1,2-Dichloroethene	56.0	50.0	112%	55.1	50.0	110%	1.6%
cis-1,2-Dichloroethene	58.8	50.0	118%	57.6	50.0	115%	2.1%
Chloroform	60.6	50.0	121%	60.0	50.0	120%	1.0%
1,2-Dichloroethane	59.2	50.0	118%	59.8	50.0	120%	1.0%
2-Butanone	268	250	107%	273	250	109%	1.8%
1,1,1-Trichloroethane	59.9	50.0	120%	57.8	50.0	116%	3.6%
Carbon Tetrachloride	58.1	50.0	116%	57.9	50.0	116%	0.3%
Vinyl Acetate	52.4	50.0	105%	54.9	50.0	110%	4.7%
Bromodichloromethane	56.6	50.0	113%	59.8	50.0	120%	5.5%
1,2-Dichloropropane	55.7	50.0	111%	57.1	50.0	114%	2.5%
cis-1,3-Dichloropropene	57.7	50.0	115%	57.5	50.0	115%	0.3%
Trichloroethene	57.8	50.0	116%	56.4	50.0	113%	2.5%
Dibromochloromethane	55.6	50.0	111%	54.9	50.0	110%	1.3%
1,1,2-Trichloroethane	57.4	50.0	115%	58.0	50.0	116%	1.0%
Benzene	52.5	50.0	105%	53.0	50.0	106%	0.9%
trans-1,3-Dichloropropene	57.4	50.0	115%	57.1	50.0	114%	0.5%
2-Chloroethylvinylether	54.6	50.0	109%	54.8	50.0	110%	0.4%
Bromoform	53.8	50.0	108%	51.4	50.0	103%	4.6%
4-Methyl-2-Pentanone (MIBK)	281	250	112%	281	250	112%	0.0%
2-Hexanone	251	250	100%	254	250	102%	1.2%
Tetrachloroethene	56.1	50.0	112%	54.4	50.0	109%	3.1%
1,1,2,2-Tetrachloroethane	56.6	50.0	113%	54.0	50.0	108%	4.7%
Toluene	55.3	50.0	111%	58.6	50.0	117%	5.8%
Chlorobenzene	56.5	50.0	113%	54.8	50.0	110%	3.1%
Ethylbenzene	59.9	50.0	120%	58.4	50.0	117%	2.5%
Styrene	59.5	50.0	119%	59.0	50.0	118%	0.8%
Trichlorofluoromethane	63.8	50.0	128%	60.0	50.0	120%	6.1%
1,1,2-Trichloro-1,2,2-trifl	61.8	50.0	124%	58.4	50.0	117%	5.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031805**
 LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4619
Matrix: Soil
Date Analyzed: 03/18/05 12:06
LCSD: 03/18/05 12:40

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	115	100	115%	113	100	113%	1.8%
o-Xylene	56.0	50.0	112%	55.4	50.0	111%	1.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	117%	115%
d8-Toluene	110%	114%
Bromofluorobenzene	107%	108%
d4-1,2-Dichlorobenzene	104%	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-032005
LCS/LCSD

Lab Sample ID: LCS-032005
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/JA
LCSD: FINN5/JA
Date Analyzed: 03/20/05 12:29
LCSD: 03/20/05 13:05

Sample Amount: 5.00 g
LCSD: 5.00 g

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	45.8	50.0	91.6%	45.3	50.0	90.6%	1.1%
Bromomethane	41.0	50.0	82.0%	41.2	50.0	82.4%	0.5%
Vinyl Chloride	46.6	50.0	93.2%	45.8	50.0	91.6%	1.7%
Chloroethane	46.6	50.0	93.2%	43.9	50.0	87.8%	6.0%
Methylene Chloride	47.7	50.0	95.4%	47.1	50.0	94.2%	1.3%
Acetone	229	250	91.6%	243	250	97.2%	5.9%
Carbon Disulfide	52.2	50.0	104%	50.2	50.0	100%	3.9%
1,1-Dichloroethene	50.5	50.0	101%	49.2	50.0	98.4%	2.6%
1,1-Dichloroethane	52.0	50.0	104%	50.5	50.0	101%	2.9%
trans-1,2-Dichloroethene	49.4	50.0	98.8%	49.0	50.0	98.0%	0.8%
cis-1,2-Dichloroethene	52.6	50.0	105%	52.2	50.0	104%	0.8%
Chloroform	50.2	50.0	100%	48.4	50.0	96.8%	3.7%
1,2-Dichloroethane	48.3	50.0	96.6%	50.3	50.0	101%	4.1%
2-Butanone	236	250	94.4%	253	250	101%	7.0%
1,1,1-Trichloroethane	49.6	50.0	99.2%	48.7	50.0	97.4%	1.8%
Carbon Tetrachloride	51.7	50.0	103%	50.4	50.0	101%	2.5%
Vinyl Acetate	48.9	50.0	97.8%	52.6	50.0	105%	7.3%
Bromodichloromethane	51.2	50.0	102%	51.4	50.0	103%	0.4%
1,2-Dichloropropane	51.9	50.0	104%	51.3	50.0	103%	1.2%
cis-1,3-Dichloropropene	52.1	50.0	104%	51.7	50.0	103%	0.8%
Trichloroethene	53.2	50.0	106%	51.8	50.0	104%	2.7%
Dibromochloromethane	51.3	50.0	103%	53.5	50.0	107%	4.2%
1,1,2-Trichloroethane	49.7	50.0	99.4%	50.6	50.0	101%	1.8%
Benzene	48.2	50.0	96.4%	47.5	50.0	95.0%	1.5%
trans-1,3-Dichloropropene	50.6	50.0	101%	50.1	50.0	100%	1.0%
2-Chloroethylvinylether	49.5	50.0	99.0%	50.5	50.0	101%	2.0%
Bromoform	50.4	50.0	101%	52.7	50.0	105%	4.5%
4-Methyl-2-Pentanone (MIBK)	246	250	98.4%	260	250	104%	5.5%
2-Hexanone	257	250	103%	272	250	109%	5.7%
Tetrachloroethene	53.6	50.0	107%	52.9	50.0	106%	1.3%
1,1,2,2-Tetrachloroethane	48.8	50.0	97.6%	50.7	50.0	101%	3.8%
Toluene	52.0	50.0	104%	49.3	50.0	98.6%	5.3%
Chlorobenzene	53.2	50.0	106%	51.9	50.0	104%	2.5%
Ethylbenzene	54.5	50.0	109%	52.8	50.0	106%	3.2%
Styrene	56.2	50.0	112%	55.3	50.0	111%	1.6%
Trichlorofluoromethane	46.4	50.0	92.8%	44.0	50.0	88.0%	5.3%
1,1,2-Trichloro-1,2,2-trifl	52.1	50.0	104%	49.4	50.0	98.8%	5.3%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032005**
 LCS/LCSD

Lab Sample ID: LCS-032005
LIMS ID: 05-4628
Matrix: Soil
Date Analyzed: 03/20/05 12:29
LCSD: 03/20/05 13:05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	108	100	108%	106	100	106%	1.9%
o-Xylene	54.9	50.0	110%	54.0	50.0	108%	1.7%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	91.5%	95.2%
d8-Toluene	96.6%	99.3%
Bromofluorobenzene	98.5%	98.9%
d4-1,2-Dichlorobenzene	95.7%	96.1%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031505	57.6%	59.2%	70.4%	57.2%	60.0%	46.1%	62.9%	58.4%	0
LCS-031505	67.2%	70.0%	70.4%	66.4%	63.2%	51.2%	66.7%	65.1%	0
LCSD-031505	65.2%	68.4%	74.4%	64.0%	65.9%	50.7%	66.7%	65.1%	0
DP-SY-1-1	65.6%	73.6%	72.8%	63.6%	65.3%	52.0%	74.9%	68.5%	0
DP-SY-1-1 MS	56.8%	60.8%	63.6%	56.0%	58.7%	51.5%	61.6%	59.2%	0
DP-SY-1-1 MSD	66.8%	73.6%	74.0%	63.6%	64.3%	60.8%	78.9%	67.7%	0
DP-SY-1-5	39.5%	44.8%	46.0%	39.3%	33.9%	35.5%	41.9%	41.3%	0
DP-SY-1-10	63.2%	69.2%	68.0%	61.2%	50.9%	55.2%	70.9%	64.8%	0
DP-SY-9-1	60.0%	66.4%	64.8%	56.8%	52.3%	51.7%	60.0%	57.1%	0
DP-SY-9-5	50.4%	55.6%	57.2%	49.2%	42.1%	43.2%	49.6%	48.0%	0
DP-SY-9-10	44.0%	48.8%	55.6%	40.4%	35.2%	37.6%	49.3%	43.2%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(24-100)	(7-113)
(FBP) = 2-Fluorobiphenyl	(27-108)	(30-99)
(TPH) = d14-p-Terphenyl	(38-134)	(39-116)
(DCB) = d4-1,2-Dichlorobenzene	(24-96)	(23-84)
(PHL) = d5-Phenol	(34-99)	(27-97)
(2FP) = 2-Fluorophenol	(35-102)	(33-93)
(TBP) = 2,4,6-Tribromophenol	(28-113)	(22-127)
(2CP) = d4-2-Chlorophenol	(33-97)	(30-94)

Prep Method: SW3550B
Log Number Range: 05-4614 to 05-4619

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/23/05 16:40
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4614
Matrix: Soil
Date Analyzed: 03/23/05 16:40

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.6%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	60.0%	2-Fluorophenol	46.1%
2,4,6-Tribromophenol	62.9%	d4-2-Chlorophenol	58.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 20:16
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Date Analyzed: 03/21/05 20:16

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	72.8%	d4-1,2-Dichlorobenzene	63.6%
d5-Phenol	65.3%	2-Fluorophenol	52.0%
2,4,6-Tribromophenol	74.9%	d4-2-Chlorophenol	68.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
MATRIX SPIKE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 16:13
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
MATRIX SPIKE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Date Analyzed: 03/22/05 16:13

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.8%	2-Fluorobiphenyl	60.8%
d14-p-Terphenyl	63.6%	d4-1,2-Dichlorobenzene	56.0%
d5-Phenol	58.7%	2-Fluorophenol	51.5%
2,4,6-Tribromophenol	61.6%	d4-2-Chlorophenol	59.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 21:21
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
MATRIX SPIKE DUPLICATE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Date Analyzed: 03/21/05 21:21

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.8%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	74.0%	d4-1,2-Dichlorobenzene	63.6%
d5-Phenol	64.3%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	78.9%	d4-2-Chlorophenol	67.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 21:54
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.69 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 26.8%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Date Analyzed: 03/21/05 21:54

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	39.5%	2-Fluorobiphenyl	44.8%
d14-p-Terphenyl	46.0%	d4-1,2-Dichlorobenzene	39.3%
d5-Phenol	33.9%	2-Fluorophenol	35.5%
2,4,6-Tribromophenol	41.9%	d4-2-Chlorophenol	41.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 22:27
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.61 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.6%
pH: 7.1

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Date Analyzed: 03/21/05 22:27

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.2%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	50.9%	2-Fluorophenol	55.2%
2,4,6-Tribromophenol	70.9%	d4-2-Chlorophenol	64.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 23:00
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.60 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.6%
pH: 6.1

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Date Analyzed: 03/21/05 23:00

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.0%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	64.8%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	52.3%	2-Fluorophenol	51.7%
2,4,6-Tribromophenol	60.0%	d4-2-Chlorophenol	57.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 23:33
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.0%
pH: 3.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Date Analyzed: 03/21/05 23:33

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.4%	2-Fluorobiphenyl	55.6%
d14-p-Terphenyl	57.2%	d4-1,2-Dichlorobenzene	49.2%
d5-Phenol	42.1%	2-Fluorophenol	43.2%
2,4,6-Tribromophenol	49.6%	d4-2-Chlorophenol	48.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 00:05
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.68 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 19.2%
pH: 5.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Date Analyzed: 03/22/05 00:05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	44.0%	2-Fluorobiphenyl	48.8%
d14-p-Terphenyl	55.6%	d4-1,2-Dichlorobenzene	40.4%
d5-Phenol	35.2%	2-Fluorophenol	37.6%
2,4,6-Tribromophenol	49.3%	d4-2-Chlorophenol	43.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
MS/MSD

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/22/05 16:13
MSD: 03/21/05 21:21
Instrument/Analyst MS: NT4/LJR
MSD: NT4/LJR
GPC Cleanup: NO

Sample Amount MS: 7.56 g-dry-wt
MSD: 7.56 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 5.8%
pH: 7.8

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 66.1	1430	2480	57.7%	1600	2480	64.5%	11.2%
2-Chlorophenol	< 66.1	1450	2480	58.5%	1640	2480	66.1%	12.3%
1,4-Dichlorobenzene	< 66.1	844	1650	51.2%	953	1650	57.8%	12.1%
N-Nitroso-Di-N-Propylamine	< 331	986	1650	59.8%	1110	1650	67.3%	11.8%
1,2,4-Trichlorobenzene	< 66.1	903	1650	54.7%	1070	1650	64.8%	16.9%
4-Chloro-3-methylphenol	< 331	1640	2480	66.1%	2070	2480	83.5%	23.2%
Acenaphthene	< 66.1	1010	1650	61.2%	1210	1650	73.3%	18.0%
4-Nitrophenol	< 331	1880	2480	75.8%	2150	2480	86.7%	13.4%
2,4-Dinitrotoluene	< 331	1030	1650	62.4%	738	1650	44.7%	33.0%
Pentachlorophenol	< 331	1450	2480	58.5%	2090	2480	84.3%	36.2%
Phenanthrene	< 66.1	143	198	72.2%	167	198	84.3%	15.5%
Pyrene	< 66.1	1020	1650	61.8%	1210	1650	73.3%	17.0%
Chrysene	< 66.1	154	198	77.8%	184	198	92.9%	17.8%
Benzo(k)fluoranthene	< 66.1	139	198	70.2%	208	198	105%	39.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/21/05 19:10
LCSD: 03/21/05 19:43
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1540	2500	61.6%	1660	2500	66.4%	7.5%
2-Chlorophenol	1590	2500	63.6%	1680	2500	67.2%	5.5%
1,4-Dichlorobenzene	1010	1670	60.5%	1010	1670	60.5%	0.0%
N-Nitroso-Di-N-Propylamine	1050	1670	62.9%	1140	1670	68.3%	8.2%
1,2,4-Trichlorobenzene	1040	1670	62.3%	1060	1670	63.5%	1.9%
4-Chloro-3-methylphenol	1870	2500	74.8%	2050	2500	82.0%	9.2%
Acenaphthene	1130	1670	67.7%	1190	1670	71.3%	5.2%
4-Nitrophenol	1450	2500	58.0%	1800	2500	72.0%	21.5%
2,4-Dinitrotoluene	574	1670	34.4%	879	1670	52.6%	42.0%
Pentachlorophenol	1700	2500	68.0%	1770	2500	70.8%	4.0%
Phenanthrene	153	200	76.5%	176	200	88.0%	14.0%
Pyrene	1110	1670	66.5%	1250	1670	74.9%	11.9%
Chrysene	167	200	83.5%	189	200	94.5%	12.4%
Benzo(k)fluoranthene	184	200	92.0%	210	200	105%	13.2%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	67.2%	65.2%
2-Fluorobiphenyl	70.0%	68.4%
d14-p-Terphenyl	70.4%	74.4%
d4-1,2-Dichlorobenzene	66.4%	64.0%
d5-Phenol	63.2%	65.9%
2-Fluorophenol	51.2%	50.7%
2,4,6-Tribromophenol	66.7%	66.7%
d4-2-Chlorophenol	65.1%	65.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

FORM III

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	MNP	DBA	TOT OUT
MB-031505	60.3%	41.3%	0
LCS-031505	63.3%	36.7%	0
LCSD-031505	66.0%	49.7%	0
DP-SY-1-1	66.3%	39.7%	0
DP-SY-1-1 MS	63.7%	33.3%	0
DP-SY-1-1 MSD	70.3%	78.0%	0
DP-SY-1-5	36.0%	47.3%	0
DP-SY-1-10	62.3%	52.7%	0
DP-SY-9-1	58.3%	47.7%	0
DP-SY-9-5	51.7%	44.0%	0
DP-SY-9-10	40.3%	41.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(37-101)	(27-106)
(DBA) = d14-Dibenzo(a,h)anthracene	(30-126)	(10-123)

Prep Method: SW3550B
Log Number Range: 05-4614 to 05-4619

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 17:19
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.7	< 6.7 U
91-57-6	2-Methylnaphthalene	6.7	< 6.7 U
208-96-8	Acenaphthylene	6.7	< 6.7 U
83-32-9	Acenaphthene	6.7	< 6.7 U
86-73-7	Fluorene	6.7	< 6.7 U
85-01-8	Phenanthrene	6.7	< 6.7 U
120-12-7	Anthracene	6.7	< 6.7 U
206-44-0	Fluoranthene	6.7	< 6.7 U
129-00-0	Pyrene	6.7	< 6.7 U
56-55-3	Benzo(a)anthracene	6.7	< 6.7 U
218-01-9	Chrysene	6.7	< 6.7 U
205-99-2	Benzo(b)fluoranthene	6.7	< 6.7 U
207-08-9	Benzo(k)fluoranthene	6.7	< 6.7 U
50-32-8	Benzo(a)pyrene	6.7	< 6.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	< 6.7 U
53-70-3	Dibenz(a,h)anthracene	6.7	< 6.7 U
191-24-2	Benzo(g,h,i)perylene	6.7	< 6.7 U
132-64-9	Dibenzofuran	6.7	< 6.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	60.3%
d14-Dibenzo(a,h)anthracene	41.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 18:59
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	**Pyrene**	**6.6**	**13**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	**Chrysene**	**6.6**	**7.3**
205-99-2	**Benzo(b)fluoranthene**	**6.6**	**9.9 M**
207-08-9	**Benzo(k)fluoranthene**	**6.6**	**8.6 M**
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate	Recovery
d10-2-Methylnaphthalene	66.3%
d14-Dibenzo(a,h)anthracene	39.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-1-1
MATRIX SPIKE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized: MW
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 19:24
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	---
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	---
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	---
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	---
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	---
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	63.7%
d14-Dibenzo(a,h)anthracene	33.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-1-1
MATRIX SPIKE DUP

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized: MW
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 18:31
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	---
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	---
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	---
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	---
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	---
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracene	78.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized: TNW
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 18:56
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.69 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 26.8 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**7.8**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	**Fluoranthene**	**6.5**	**10**
129-00-0	**Pyrene**	**6.5**	**13**
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	**Chrysene**	**6.5**	**7.8**
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	**Benzo(k)fluoranthene**	**6.5**	**8.4**
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	36.0%
d14-Dibenzo(a,h)anthracene	47.3%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 19:21
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.61 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 27.6 %
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**12**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	**Fluoranthene**	**6.6**	**12**
129-00-0	**Pyrene**	**6.6**	**9.9**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	**Chrysene**	**6.6**	**10**
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracene	52.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 19:34
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.60 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 15.6 %
pH: 6.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**9.9**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	**Pyrene**	**6.6**	**6.6**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.3%
d14-Dibenzo(a,h)anthracene	47.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 19:59
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 16.0 %
pH: 3.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	51.7%
d14-Dibenzo(a,h)anthracene	44.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 20:24
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.68 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 19.2 %
pH: 5.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	Phenanthrene	6.5	< 6.5 U
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	40.3%
d14-Dibenzo(a,h)anthracene	41.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: DP-SY-1-1
MS/MSD

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized: MW
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/18/05 19:24
MSD: 03/22/05 18:31
Instrument/Analyst MS: NT1/Van
MSD: NT1/Van
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount MS: 7.56 g-dry-wt
MSD: 7.56 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
pH: 7.8
Moisture: 5.8%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Acenaphthene	< 6.6	938	1650	56.7%	1180	1650	71.4%	22.9%
Phenanthrene	< 6.6	132	198	66.7%	148	198	74.7%	11.4%
Pyrene	12.6	1160	1650	69.4%	1170	1650	70.0%	0.9%
Chrysene	7.3	130	198	62.0%	154	198	74.1%	16.9%
Benzo(k)fluoranthene	8.6	157	198	74.9%	143	198	67.9%	9.3%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/18/05 17:44
LCSD: 03/18/05 18:09
Instrument/Analyst LCS: NT1/Van
LCSD: NT1/Van
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 g
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
pH: NA
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acenaphthene	975	1670	58.4%	1110	1670	66.5%	12.9%
Phenanthrene	139	200	69.5%	155	200	77.5%	10.9%
Pyrene	1220	1670	73.1%	1350	1670	80.8%	10.1%
Chrysene	141	200	70.5%	159	200	79.5%	12.0%
Benzo(k)fluoranthene	164	200	82.0%	185	200	92.5%	12.0%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	63.3%	66.0%
d14-Dibenzo(a,h)anthracene	36.7%	49.7%

FORM III

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Client ID	DCBP	TCMX	TOT OUT
MB-031505	115%	87.8%	0
LCS-031505	102%	86.0%	0
LCSD-031505	107%	92.2%	0
DP-SY-1-1	119%	93.8%	0
DP-SY-1-5	95.8%	67.2%	0
DP-SY-1-10	111%	79.8%	0
DP-SY-9-1	102%	74.8%	0
DP-SY-9-5	98.2%	74.2%	0
DP-SY-9-10	109%	87.5%	0
DP-SY-10-1	112%	93.8%	0
DP-SY-10-5	112%	94.0%	0
DP-SY-10-10	117%	95.5%	0
DP-SY-11-1	124%	92.5%	0
DP-SY-11-1 MS	102%	90.0%	0
DP-SY-11-1 MSD	102%	89.8%	0
DP-SY-11-5	120%	96.8%	0
DP-SY-11-10	106%	75.5%	0
DP-SY-12-1	121%	93.2%	0
DP-SY-12-5	102%	79.0%	0
DP-SY-12-10	119%	88.0%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-4614 to 05-4628

000079

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 21:46
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	87.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 23:11
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 5.67 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.8
Percent Moisture: 5.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	70	< 70 U
53469-21-9	Aroclor 1242	70	< 70 U
12672-29-6	Aroclor 1248	70	< 70 U
11097-69-1	**Aroclor 1254**	**70**	**130**
11096-82-5	Aroclor 1260	70	< 70 U
11104-28-2	Aroclor 1221	70	< 70 U
11141-16-5	Aroclor 1232	70	< 70 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	119%
Tetrachlorometaxylene	93.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 23:28
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 26.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.8%
Tetrachlorometaxylene	67.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 23:45
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 27.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	79.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:02
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.1
Percent Moisture: 15.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	102%
Tetrachlorometaxylene	74.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:19
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 3.9
Percent Moisture: 16.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.2%
Tetrachlorometaxylene	74.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:36
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 5.8
Percent Moisture: 19.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	109%
Tetrachlorometaxylene	87.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-10-1
SAMPLE

Lab Sample ID: HU97G
LIMS ID: 05-4620
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:53
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 5.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	93.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-10-5
SAMPLE

Lab Sample ID: HU97H
LIMS ID: 05-4621
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 01:10
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.2
Percent Moisture: 6.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	94.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: DP-SY-10-10
SAMPLE

Lab Sample ID: HU97I
LIMS ID: 05-4622
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 01:27
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	95.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-1
SAMPLE

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 01:44
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.5
Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	124%
Tetrachlorometaxylene	92.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-1
MATRIX SPIKE

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 02:01
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.5
Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	---
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	---
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	90.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-1
MATRIX SPIKE DUP

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 02:18
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.5
Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	---
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	---
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	89.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-5
SAMPLE

Lab Sample ID: HU97K
LIMS ID: 05-4624
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 02:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.8
Percent Moisture: 3.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	120%
Tetrachlorometaxylene	96.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-10
SAMPLE

Lab Sample ID: HU97L
LIMS ID: 05-4625
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 02:52
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.0
Percent Moisture: 23.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	75.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: DP-SY-12-1
SAMPLE

Lab Sample ID: HU97M
LIMS ID: 05-4626
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 03:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.0
Percent Moisture: 3.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	121%
Tetrachlorometaxylene	93.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-12-5
SAMPLE

Lab Sample ID: HU97N
LIMS ID: 05-4627
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 03:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 3.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	79.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-12-10
SAMPLE

Lab Sample ID: HU97O
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 03:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.2
Percent Moisture: 5.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	119%
Tetrachlorometaxylene	88.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: DP-SY-11-1
MS/MSD

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/18/05 02:01
MSD: 03/18/05 02:18
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount MS: 12.0 g-dry-wt
MSD: 12.1 g-dry-wt
Final Extract Volume MS: 4.0 mL
MSD: 4.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
pH: 6.5
Percent Moisture: 3.7%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 33.2 U	156	166	94.0%	153	166	92.2%	1.9%
Aroclor 1260	< 33.2 U	148	166	89.2%	145	166	87.3%	2.0%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/15/05
Date Analyzed LCS: 03/17/05 22:03
LCSD: 03/17/05 22:20
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 12.0 g-dry-wt
LCSD: 12.0 g-dry-wt
Final Extract Volume LCS: 4.0 mL
LCSD: 4.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	148	167	88.8%	152	167	91.2%	2.7%
Aroclor 1260	151	167	90.6%	153	167	91.8%	1.3%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	102%	107%
Tetrachlorometaxylene	86.0%	92.2%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

FORM III

TOTAL METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Percent Total Solids: 93.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/24/05	6010B	03/25/05	7429-90-5	Aluminum	5	9,080	
3050B	03/24/05	6010B	03/25/05	7440-36-0	Antimony	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-38-2	Arsenic	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/24/05	6010B	03/25/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/24/05	6010B	03/25/05	7440-47-3	Chromium	0.5	14.5	
3050B	03/24/05	6010B	03/25/05	7440-50-8	Copper	0.2	12.2	
3050B	03/24/05	6010B	03/25/05	7439-92-1	Lead	2	5	
3050B	03/24/05	6010B	03/25/05	7439-95-4	Magnesium	5	3,140	
3050B	03/24/05	6010B	03/25/05	7439-96-5	Manganese	0.1	158	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/24/05	6010B	03/25/05	7440-02-0	Nickel	1	14	
3050B	03/24/05	6010B	03/25/05	7782-49-2	Selenium	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/24/05	6010B	03/25/05	7440-28-0	Thallium	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-62-2	Vanadium	0.3	36.0	
3050B	03/24/05	6010B	03/25/05	7440-66-6	Zinc	0.6	33.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-1
DUPLICATE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Aluminum	6010B	9,080	9,260	2.0%	+/- 20%	
Antimony	6010B	5 U	5 U	0.0%	+/- 5	L
Arsenic	6010B	5 U	5 U	0.0%	+/- 5	L
Beryllium	6010B	0.1	0.1	0.0%	+/- 0.1	L
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	6010B	14.5	15.0	3.4%	+/- 20%	
Copper	6010B	12.2	12.9	5.6%	+/- 20%	
Lead	6010B	5	5	0.0%	+/- 2	L
Magnesium	6010B	3,140	3,100	1.3%	+/- 20%	
Manganese	6010B	158	145	8.6%	+/- 20%	
Mercury	7471A	0.05 U	0.05 U	0.0%	+/- 0.05	L
Nickel	6010B	14	13	7.4%	+/- 20%	
Selenium	6010B	5 U	5 U	0.0%	+/- 5	L
Silver	6010B	0.3 U	0.3 U	0.0%	+/- 0.3	L
Thallium	6010B	5 U	5 U	0.0%	+/- 5	L
Vanadium	6010B	36.0	37.0	2.7%	+/- 20%	
Zinc	6010B	33.5	33.7	0.6%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-1
MATRIX SPIKE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Aluminum	6010B	9,080	9,900	209	392%	H
Antimony	6010B	5 U	64	209	30.6%	N
Arsenic	6010B	5 U	206	209	98.6%	
Beryllium	6010B	0.1	51.1	52.4	97.3%	
Cadmium	6010B	0.2 U	51.7	52.4	98.7%	
Chromium	6010B	14.5	64.1	52.4	94.7%	
Copper	6010B	12.2	66.9	52.4	104%	
Lead	6010B	5	199	209	92.8%	
Magnesium	6010B	3,140	4,230	1,050	104%	
Manganese	6010B	158	213	52.4	105%	
Mercury	7471A	0.05 U	0.59	0.517	114%	
Nickel	6010B	14	62	52.4	91.6%	
Selenium	6010B	5 U	207	209	99.0%	
Silver	6010B	0.3 U	51.5	52.4	98.3%	
Thallium	6010B	5 U	193	209	92.3%	
Vanadium	6010B	36.0	86.3	52.4	96.0%	
Zinc	6010B	33.5	79.9	52.4	88.5%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

FORM-V

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Percent Total Solids: 72.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	7	19,400	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	7	7	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	7	7	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.3	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.3	0.3	
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.7	19.0	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.3	30.0	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	3	15	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	7	5,040	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	248	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.07	0.07	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	16	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	7	7	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	7	7	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.4	55.9	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.8	53.7	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 76.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	16,700	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.2	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.3	
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	17.0	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	24.4	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	10	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	4,230	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	230	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	13	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.4	49.7	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	42.9	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 87.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	8,840	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	10.1	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	12.2	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	1,970	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	72.0	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	6	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	40.2	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	17.8	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: PZDG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 83.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	10,400	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	11.4	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	13.7	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	3	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	2,290	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	85.2	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	9	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.4	38.9	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	24.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 82.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	8,400	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	10.5	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	13.1	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	1,920	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	174	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	7	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	43.5	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	19.7	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-10-1
SAMPLE

Lab Sample ID: HU97G
LIMS ID: 05-4620
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 94.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	9,950	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	13.4	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	13.1	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	4	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	3,130	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	156	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	12	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	41.1	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	30.4	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-10-5
SAMPLE

Lab Sample ID: H097H
LIMS ID: 05-4621
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: H097-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 90.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	8,560	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	10.9	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	11.6	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	2,170	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	83.7	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	7	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	37.5	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	20.1	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-10-10
SAMPLE

Lab Sample ID: HU97I
LIMS ID: 05-4622
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 80.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	11,900	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.2	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	17.1	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	22.0	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	3	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	3,500	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	138	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	11	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.4	52.5	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	31.4	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-11-1
SAMPLE

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 97.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	7,630	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	13.5	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	9.0	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	2,410	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	118	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	8	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	38.7	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	21.7	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-11-5
SAMPLE

Lab Sample ID: H097K
LIMS ID: 05-4624
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: H097-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 97.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	8,110	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	11.7	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	9.4	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	3	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	2,630	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	123	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.04	0.05	
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	8	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	37.1	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	21.9	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-11-10
SAMPLE

Lab Sample ID: HU97L
LIMS ID: 05-4625
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 78.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	11,400	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.2	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	13.7	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	23.8	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	4	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	3,610	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	174	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	11	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.4	50.5	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	32.4	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-12-1
SAMPLE

Lab Sample ID: HU97M
LIMS ID: 05-4626
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 96.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	7,790	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	12.2	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	11.7	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	3	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	2,650	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	134	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	9	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	38.5	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	25.8	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-12-5
SAMPLE

Lab Sample ID: HU97N
LIMS ID: 05-4627
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 96.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	8,320	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	14.3	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	9.9	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	2,750	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	124	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	10	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	41.8	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	22.8	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-12-10
SAMPLE

Lab Sample ID: HU97O
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 94.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	8,650	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	12.9	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	9.9	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	2,380	
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	108	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	8	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	38.0	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	21.2	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HU97MB
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/24/05	6010B	03/25/05	7429-90-5	Aluminum	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-36-0	Antimony	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-38-2	Arsenic	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/24/05	6010B	03/25/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/24/05	6010B	03/25/05	7440-47-3	Chromium	0.5	0.5	U
3050B	03/24/05	6010B	03/25/05	7440-50-8	Copper	0.2	0.2	U
3050B	03/24/05	6010B	03/25/05	7439-92-1	Lead	2	2	U
3050B	03/24/05	6010B	03/25/05	7439-95-4	Magnesium	5	5	U
3050B	03/24/05	6010B	03/25/05	7439-96-5	Manganese	0.1	0.1	U
3050B	03/24/05	6010B	03/25/05	7440-02-0	Nickel	1	1	U
3050B	03/24/05	6010B	03/25/05	7782-49-2	Selenium	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/24/05	6010B	03/25/05	7440-28-0	Thallium	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-62-2	Vanadium	0.3	0.3	U
3050B	03/24/05	6010B	03/25/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HU97LCS
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Aluminum	6010B	197	200	98.5%	
Antimony	6010B	205	200	102%	
Arsenic	6010B	199	200	99.5%	
Beryllium	6010B	49.6	50.0	99.2%	
Cadmium	6010B	50.7	50.0	101%	
Chromium	6010B	48.3	50.0	96.6%	
Copper	6010B	49.9	50.0	99.8%	
Lead	6010B	196	200	98.0%	
Magnesium	6010B	1010	1000	101%	
Manganese	6010B	48.5	50.0	97.0%	
Nickel	6010B	47	50	94.0%	
Selenium	6010B	200	200	100%	
Silver	6010B	48.9	50.0	97.8%	
Thallium	6010B	196	200	98.0%	
Vanadium	6010B	50.3	50.0	101%	
Zinc	6010B	47.1	50.0	94.2%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HU97MB
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.5	0.5	U
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	5	5	U
3050B	03/18/05	6010B	03/22/05	7439-96-5	Manganese	0.1	0.1	U
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	1	U
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HU97LCS
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 06/13/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Aluminum	6010B	200	200	100%	
Antimony	6010B	207	200	104%	
Arsenic	6010B	191	200	95.5%	
Beryllium	6010B	48.7	50.0	97.4%	
Cadmium	6010B	49.8	50.0	99.6%	
Chromium	6010B	48.1	50.0	96.2%	
Copper	6010B	48.9	50.0	97.8%	
Lead	6010B	192	200	96.0%	
Magnesium	6010B	991	1000	99.1%	
Manganese	6010B	47.7	50.0	95.4%	
Mercury	7471A	0.94	1.00	94.0%	
Nickel	6010B	46	50	92.0%	
Selenium	6010B	192	200	96.0%	
Silver	6010B	48.2	50.0	96.4%	
Thallium	6010B	189	200	94.5%	
Vanadium	6010B	50.0	50.0	100%	
Zinc	6010B	46.3	50.0	92.6%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: ah
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Client ID: DP-SY-1-1
ARI ID: 05-4614 HU97A

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.118	< 0.118 U
Total Solids	03/14/05 031405#1	EPA 160.3	Percent	0.01	92.50

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: arl
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Client ID: DP-SY-1-5
ARI ID: 05-4615 HU97B

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.147	< 0.147 U
Total Solids	03/14/05 031405#1	EPA 160.3	Percent	0.01	72.30

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

SAMPLE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: ark
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Client ID: DP-SY-1-10
ARI ID: 05-4616 HU97C

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.132	< 0.132 U
Total Solids	03/14/05 031405#1	EPA 160.3	Percent	0.01	78.00

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

METHOD BLANK RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: arp
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/11/05	mg/kg	< 0.010 U
Total Solids	03/14/05	Percent	< 0.01 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome	03/11/05	mg/kg	0.261	0.250	104.4%
Soil Hexavalent Chrome					

REPLICATE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HU97C Client ID: DP-SY-1-10					
Total Solids	03/14/05	Percent	78.00	77.80 77.90	0.1%

Total Solids

Volatile Total Solids
voats.wlf printed: 3/18/05

Worklist No: 6113

Data Analyst: Jean Alexander
Date Entered: 3/18/05
Comments:

Analyzed by: JA
Date Analyzed: 3/17/05

Sample No	Client ID/Client	Tare	Wet Wt	Dry Wt	%Solids
05-4614	HU97 A DP-SY-1-1	1.24	11.41	10.63	92.33
05-4615	HU97 B DP-SY-1-5	1.36	16.07	12.35	74.71
05-4616	HJ97 C DP-SY-1-10	1.59	14.77	11.79	77.39
05-4617	HU97 D DP-SY-9-1	1.45	11.57	11.13	95.65
05-4618	HU97 E DP-SY-9-5	1.55	12.75	10.21	77.32

Volatiles Total Solids-voats
Data By: Jean Alexander
Created: 3/22/05

Worklist: 7186
Analyst: JA
Comments:

	ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1.	HU97F 05-4619	1.22	12.99	10.51	78.93
2.	HU97G 05-4620	1.34	9.54	8.85	91.59
3.	HU97H 05-4621	1.22	10.50	9.61	90.41
4.	HU97I 05-4622	1.23	9.53	9.03	93.98
5.	HU97J 05-4623	1.23	16.62	14.63	87.07
6.	HU97K 05-4624	1.28	14.91	12.87	85.03
7.	HU97L 05-4625	1.24	11.68	8.64	70.88
8.	HU97M 05-4626	1.26	10.66	10.45	97.77
9.	HU97N 05-4627	1.26	9.96	9.59	95.75
10.	HU97O 05-4628	1.24	14.22	11.18	76.58

Worklist No: 3828

Total Solids
extts.wlf: 3/11/05

Data Analyst: Jan Felkins
Date Entered: 3/10/05
Comments:

Analyzed by: Jan
Date Analyzed: 3/11/05

** Use appropriate worklist to enter SRM Total Solids (see your SOPs) **

Sample	Client ID/Client	Tare	Wet Wt	Final Wt	%Solids	pH
1.	HU97A 05-4614 DP-SY-1-1	0.80	10.10	9.56	94.2	7.8
2.	HU97B 05-4615 DP-SY-1-5	0.80	11.56	8.68	73.2	7.2
3.	HU97C 05-4616 DP-SY-1-10	0.80	11.60	8.62	72.4	7.1
4.	HU97D 05-4617 DP-SY-9-1	0.80	10.14	8.68	84.4	6.1
5.	HU97E 05-4618 DP-SY-9-5	0.80	10.30	8.78	84.0	3.9
6.	HU97F 05-4619 DP-SY-9-10	0.80	11.86	9.74	80.8	5.8
7.	HU97G 05-4620 DP-SY-10-1	0.80	10.92	10.34	94.3	7.6
8.	HU97H 05-4621 DP-SY-10-5	0.80	10.72	10.06	93.3	6.2
9.	HU97I 05-4622 DP-SY-10-10	0.80	10.40	8.58	81.0	7.1
10.	HU97J 05-4623 DP-SY-11-1	0.80	11.54	11.14	96.3	6.5
11.	HU97K 05-4624 DP-SY-11-5	0.80	11.12	10.78	96.7	7.8
12.	HU97L 05-4625 DP-SY-11-10	0.78	11.28	8.78	76.2	6.0

Analyst/Date: _____

Data Entered/Distributed By: SC 3/11/05

Worklist No: 3828

Total Solids
extts.wlf: 3/11/05

Data Analyst: Jan Felkins
Date Entered: 3/10/05
Comments:

Analyzed by: Jan
Date Analyzed: 3/11/05

** Use appropriate worklist to enter SRM Total Solids (see your SOPs) **

Sample	Client ID/Client	Tare	Wet Wt	Final Wt	%Solids	pH
13.	HU97M 05-4626 DP-SY-12-1	0.78	10.64	10.34	97.0	8.0
14.	HU97N 05-4627 DP-SY-12-5	0.80	10.72	10.38	96.6	7.0
15.	HU97O 05-4628 DP-SY-12-10	0.80	10.36	9.86	94.8	8.2

Analyst/Date:_____

Data Entered/Distributed By:_____

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 28, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HV02

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted ten water samples in good condition on March 9, 2005. The samples were received at cooler temperatures of 7.2°C and 9.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, total and dissolved metals and various conventional parameters. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV02

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HK02

Turn-around Requested: STANDARD

Page: 1 of 1

ARI Client Company: EPI / Boeing

Phone: 425-241-5400

Date: 3/9/05

Ice Present? YES

Client Contact: Doug Kunkel / Josh Bernthal

No. of Coolers: 2

Cooler Temps: 7.2 | 9.0

Client Project Name: P2DG-South Yard Area

Client Project #: 17505

Samplers: JB/TK

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	Metals (Dissolved)	Metals (Total)	Cr. VI	Nitrate Nitrite Redox Nitrite Sulfate	Ammonia TOC	Sulfide	LL Hg Dis.	LL Hg Total
SY-PLZ-153C	3/9/05	1700	WATER	5	X				X						X
SY-PLZ-153C-F	3/9/05	1200	WATER	2				X						X	
SY-PLZ-153B	3/9/05	1315	WATER	5	X				X						X
SY-PLZ-153B-F	3/9/05	1315	WATER	2				X						X	
SY-PLZ-153A	3/9/05	1500	WATER	12	X	X	X		X		X	X	X		X
SY-PLZ-153A-F	3/9/05	1500	WATER	3				X		X				X	
SY-PLZ-153A-MS	3/9/05	1530	WATER	12	X	X	X		X		X	X	X		X
SY-PLZ-153A-MS-F	3/9/05	1530	WATER	3				X		X				X	
SY-PLZ-153A-MSD	3/9/05	1600	WATER	12	X	X	X		X		X	X	X		X
SY-PLZ-153A-MSD-F	3/9/05	1600	WATER	3				X		X				X	

Comments/Special Instructions: Copy Dan Machut

Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	(Signature)	(Signature)	(Signature)
Printed Name: Josh Bernthal	Printed Name: Eric Branson	Printed Name:	Printed Name:
Company: EPI	Company: ARI	Company:	Company:
Date & Time: 3/9/05 1745	Date & Time: 3/9/05 - 1745	Date & Time:	Date & Time:

000002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV02

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV02
March 28, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0 with the exception of samples **SY-PL2-153C** and **SY-PL2-153B** which had pH values of 6-8. The samples were analyzed on 3/18/05 within the method recommended holding time.

There was no trip blank received with this set of samples.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-153A.** All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The samples were extracted on 3/15/05 and were analyzed on 3/17/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-153A.** All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The samples were extracted on 3/15/05 and were analyzed on 3/17/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV02
March 28, 2005

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-153A.** All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The samples were extracted on 3/16/05 and were analyzed on 3/18/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-153A.** All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved and Total Metals by Methods 6010 and 200.8

The samples were prepared on 3/15/05 and 3/17/05 and were analyzed between 3/17/05 and 3/21/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of element contamination.

Samples: Samples **SY-PL2-153C, SY-PL2-153C-F, SY-PL2-153B,** and **SY-PL2-153B-F** were received unpreserved. The samples were pH adjusted prior to sample preparation.

No anomalies were encountered for these samples.

Matrix Spike: A matrix spike was performed on samples **SY-PL2-153A-F** and **SY-PL2-153A.** All percent recoveries were in control.

Matrix Duplicate: A matrix duplicate was performed on samples **SY-PL2-153A-F** and **SY-PL2-153A.** All RPDs were in control.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Conventional Parameters

The Hexavalent chrome samples were analyzed on 3/10/05 within the method recommended 24 hour holding time.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV02
March 28, 2005

The Redox Potential samples were analyzed on 3/10/05 within the method recommended 24 hour holding time.
Ammonia samples were analyzed on 3/11/05 within the method recommended 28 day holding time.
Nitrate, nitrite and NO2+NO3 samples were analyzed on 3/10/05 within the method recommended 48 hour holding time.
Sulfate samples were analyzed on 3/19/05 within the method recommended 28 day holding time.
Sulfide samples were analyzed on 3/11/05 within the method recommended 7 day holding time.
Total Organic Carbon samples were analyzed on 3/14/05 within the method recommended 28 day holding time.

Method Blank(s): All method blanks were free of element contamination.

Samples: No anomalies were encountered for these samples.

LCS/SRM/Replicate/MS/MSD: All recoveries were within compliance with the exception of the sulfide LCS recovery which was low at 70.2%.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV02

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HV02

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
HV02D	SY-PL2-153C	127%	103%	98.8%	110%	0
HV02E	SY-PL2-153B	115%	109%	95.0%	110%	0
031805MB	Method Blank	99.6%	97.8%	85.6%	99.7%	0
HV02LCS	Lab Control	99.9%	98.4%	96.2%	90.8%	0
HV02LCD	LCDuplicate	102%	106%	105%	99.7%	0
HV02F	SY-PL2-153A	112%	102%	91.5%	106%	0
HV02FMS	SY-PL2-153A	105%	98.4%	101%	94.6%	0
HV02FMSD	SY-PL2-153A	104%	108%	104%	100%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031805**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-031805
LIMS ID. 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 12:49

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.6%
d8-Toluene	97.8%
Bromofluorobenzene	85.6%
d4-1,2-Dichlorobenzene	99.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV02D
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 15:07

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	**Carbon Disulfide**	**0.2**	**0.6**
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	103%
Bromofluorobenzene	98.8%
d4-1,2-Dichlorobenzene	110%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153B**
 SAMPLE

Lab Sample ID: HV02E
LIMS ID: 05-4664
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 15:31

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	109%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	110%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-1S3A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
L7505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 14:39

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**1.2**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.2**
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	102%
Bromofluorobenzene	91.5%
d4-1,2-Dichlorobenzene	106%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153A**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 15:58

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	98.4%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	94.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153A**
 MATRIX SPIKE DUPLICATE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 16:25

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	108%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	100%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153A**
Page 1 of 1 MS/MSD

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst MS: FINN3/PAB
MSD: FINN3/PAB
Date Analyzed MS: 03/18/05 15:58
MSD: 03/18/05 16:25

Sample Amount MS: 20.0 mL
MSD: 20.0 mL
Purge Volume MS: 20.0 mL
MSD: 20.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 0.2	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
Bromomethane	< 0.2	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Vinyl Chloride	1.2	5.3	4.0	102%	4.9	4.0	92.5%	7.8%
Chloroethane	< 0.2	4.0	4.0	100%	3.8	4.0	95.0%	5.1%
Methylene Chloride	< 0.3	4.1	4.0	102%	3.8	4.0	95.0%	7.6%
Acetone	< 1.0	16.6	20.0	83.0%	15.8	20.0	79.0%	4.9%
Carbon Disulfide	< 0.2	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1-Dichloroethene	< 0.2	4.2	4.0	105%	4.2	4.0	105%	0.0%
1,1-Dichloroethane	< 0.2	4.2	4.0	105%	4.2	4.0	105%	0.0%
trans-1,2-Dichloroethene	0.2	4.4	4.0	105%	4.3	4.0	102%	2.3%
cis-1,2-Dichloroethene	< 0.2	4.2	4.0	105%	4.0	4.0	100%	4.9%
Chloroform	< 0.2	4.1	4.0	102%	4.0	4.0	100%	2.5%
1,2-Dichloroethane	< 0.2	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
2-Butanone	< 1.0	17.8	20.0	89.0%	15.2	20.0	76.0%	15.8%
1,1,1-Trichloroethane	< 0.2	4.2	4.0	105%	4.2	4.0	105%	0.0%
Carbon Tetrachloride	< 0.2	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Vinyl Acetate	< 0.2	3.8	4.0	95.0%	3.3	4.0	82.5%	14.1%
Bromodichloromethane	< 0.2	3.3	4.0	82.5%	3.2	4.0	80.0%	3.1%
1,2-Dichloropropane	< 0.2	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
cis-1,3-Dichloropropene	< 0.2	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
Trichloroethene	< 0.2	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Dibromochloromethane	< 0.2	3.8	4.0	95.0%	3.5	4.0	87.5%	8.2%
1,1,2-Trichloroethane	< 0.2	3.3	4.0	82.5%	3.1	4.0	77.5%	6.2%
Benzene	< 0.2	4.0	4.0	100%	4.2	4.0	105%	4.9%
trans-1,3-Dichloropropene	< 0.2	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
2-Chloroethylvinylether	< 0.5	< 0.5	4.0	NA	< 0.5	4.0	NA	NA
Bromoform	< 0.2	3.4	4.0	85.0%	3.4	4.0	85.0%	0.0%
4-Methyl-2-Pentanone (MIBK)	< 1.0	13.5	20.0	67.5%	12.7	20.0	63.5%	6.1%
2-Hexanone	< 1.0	15.5	20.0	77.5%	14.1	20.0	70.5%	9.5%
Tetrachloroethene	< 0.2	4.3	4.0	108%	4.3	4.0	108%	0.0%
1,1,2,2-Tetrachloroethane	< 0.2	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
Toluene	< 0.2	4.1	4.0	102%	4.0	4.0	100%	2.5%
Chlorobenzene	< 0.2	4.2	4.0	105%	4.2	4.0	105%	0.0%
Ethylbenzene	< 0.2	5.0	4.0	125%	5.0	4.0	125%	0.0%
Styrene	< 0.2	3.8	4.0	95.0%	3.5	4.0	87.5%	8.2%
Trichlorofluoromethane	< 0.2	4.3	4.0	108%	4.2	4.0	105%	2.4%
1,1,2-Trichloro-1,2,2-trifl	< 0.2	4.1	4.0	102%	4.1	4.0	102%	0.0%
m,p-Xylene	< 0.4	9.6	8.0	120%	9.5	8.0	119%	1.0%
o-Xylene	< 0.2	3.7	4.0	92.5%	3.5	4.0	87.5%	5.6%

Results reported in µg/L
NA-No recovery due to high concentration of analyte in original sample, or calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031805**
 LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/18/05 11:45
LCSD: 03/18/05 12:21

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
Bromomethane	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
Vinyl Chloride	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Chloroethane	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Methylene Chloride	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Acetone	18.4	20.0	92.0%	15.9	20.0	79.5%	14.6%
Carbon Disulfide	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
1,1-Dichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
trans-1,2-Dichloroethene	4.2	4.0	105%	4.1	4.0	102%	2.4%
cis-1,2-Dichloroethene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Chloroform	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,2-Dichloroethane	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
2-Butanone	15.7	20.0	78.5%	15.7	20.0	78.5%	0.0%
1,1,1-Trichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
Carbon Tetrachloride	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Vinyl Acetate	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Bromodichloromethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
1,2-Dichloropropane	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
cis-1,3-Dichloropropene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Trichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
Dibromochloromethane	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Benzene	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans-1,3-Dichloropropene	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
2-Chloroethylvinylether	2.1	4.0	52.5%	2.1	4.0	52.5%	0.0%
Bromoform	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	13.7	20.0	68.5%	14.5	20.0	72.5%	5.7%
2-Hexanone	14.0	20.0	70.0%	14.9	20.0	74.5%	6.2%
Tetrachloroethene	4.3	4.0	108%	4.3	4.0	108%	0.0%
1,1,2,2-Tetrachloroethane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
Toluene	4.0	4.0	100%	4.2	4.0	105%	4.9%
Chlorobenzene	4.1	4.0	102%	4.3	4.0	108%	4.8%
Ethylbenzene	4.7	4.0	118%	4.9	4.0	122%	4.2%
Styrene	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Trichlorofluoromethane	4.3	4.0	108%	4.1	4.0	102%	4.8%
1,1,2-Trichloro-1,2,2-trifl	4.2	4.0	105%	4.0	4.0	100%	4.9%
m,p-Xylene	9.3	8.0	116%	9.5	8.0	119%	2.1%
o-Xylene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031805**
 LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4665
Matrix: Water
Date Analyzed: 03/18/05 11:45
LCSD: 03/18/05 12:21

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.9%	102%
d8-Toluene	98.4%	106%
Bromofluorobenzene	96.2%	105%
d4-1,2-Dichlorobenzene	90.8%	99.7%

FORM III

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031505	75.6%	70.4%	86.8%	69.2%	71.2%	68.3%	81.1%	75.2%	0
LCS-031505	73.6%	70.8%	83.2%	64.0%	69.9%	66.7%	83.2%	72.0%	0
LCSD-031505	72.8%	70.0%	81.2%	62.0%	68.0%	65.6%	82.9%	72.3%	0
SY-PL2-153A	74.8%	70.8%	80.0%	66.8%	70.7%	68.0%	84.5%	74.9%	0
SY-PL2-153A MS	63.6%	63.6%	67.2%	51.6%	57.6%	55.2%	80.0%	60.8%	0
SY-PL2-153A MSD	72.0%	69.2%	71.2%	58.4%	67.5%	65.6%	85.3%	67.7%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-4665 to 05-4665

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 10:48
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4665
Matrix: Water
Date Analyzed: 03/17/05 10:48

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.6%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	86.8%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	71.2%	2-Fluorophenol	68.3%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	75.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 12:26
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Date Analyzed: 03/17/05 12:26

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.8%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	70.7%	2-Fluorophenol	68.0%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	74.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
MATRIX SPIKE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 12:59
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	---
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
MATRIX SPIKE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 12:59
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	---
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1 0 U
106-47-8	4-Chloroaniline	5.0	< 5 0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
MATRIX SPIKE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Date Analyzed: 03/17/05 12:59

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	---
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	---
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	---
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	63.6%
d14-p-Terphenyl	67.2%	d4-1,2-Dichlorobenzene	51.6%
d5-Phenol	57.6%	2-Fluorophenol	55.2%
2,4,6-Tribromophenol	80.0%	d4-2-Chlorophenol	60.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
MATRIX SPIKE DUP

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 13:32
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	---
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
MATRIX SPIKE DUP

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Date Analyzed: 03/17/05 13:32

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	---
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**16**
218-01-9	Chrysene	1.0	---
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	---
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.0%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	71.2%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	67.5%	2-Fluorophenol	65.6%
2,4,6-Tribromophenol	85.3%	d4-2-Chlorophenol	67.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
MS/MSD

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/17/05 12:59
MSD: 03/17/05 13:32
Instrument/Analyst MS: NT4/Van
MSD: NT4/Van
GPC Cleanup: NO

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 1.0	21.0	37.5	56.0%	24.2	37.5	64.5%	14.2%
2-Chlorophenol	< 1.0	22.2	37.5	59.2%	25.3	37.5	67.5%	13.1%
1,4-Dichlorobenzene	< 1.0	11.9	25.0	47.6%	13.8	25.0	55.2%	14.8%
N-Nitroso-Di-N-Propylamine	< 5.0	16.5	25.0	66.0%	17.8	25.0	71.2%	7.6%
1,2,4-Trichlorobenzene	< 1.0	12.7	25.0	50.8%	14.6	25.0	58.4%	13.9%
4-Chloro-3-methylphenol	< 5.0	28.9	37.5	77.1%	31.1	37.5	82.9%	7.3%
Acenaphthene	< 1.0	16.4	25.0	65.6%	17.9	25.0	71.6%	8.7%
4-Nitrophenol	< 5.0	38.8	37.5	103%	40.1	37.5	107%	3.3%
2,4-Dinitrotoluene	< 5.0	19.2	25.0	76.8%	20.1	25.0	80.4%	4.6%
Pentachlorophenol	< 5.0	30.1	37.5	80.3%	31.8	37.5	84.8%	5.5%
Phenanthrene	< 1.0	2.4	3.0	80.0%	2.5	3.0	83.3%	4.1%
Pyrene	< 1.0	18.5	25.0	74.0%	19.0	25.0	76.0%	2.7%
Chrysene	< 1.0	2.3	3.0	76.7%	2.4	3.0	80.0%	4.3%
Benzo(k)fluoranthene	< 1.0	1.6	3.0	53.3%	1.7	3.0	56.7%	6.1%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/17/05 11:20
LCSD: 03/17/05 11:53
Instrument/Analyst LCS: NT4/Van
LCSD: NT4/Van

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	25.0	37.5	66.7%	24.7	37.5	65.9%	1.2%
2-Chlorophenol	27.0	37.5	72.0%	26.6	37.5	70.9%	1.5%
1,4-Dichlorobenzene	14.8	25.0	59.2%	14.7	25.0	58.8%	0.7%
N-Nitroso-Di-N-Propylamine	19.2	25.0	76.8%	18.7	25.0	74.8%	2.6%
1,2,4-Trichlorobenzene	15.5	25.0	62.0%	15.0	25.0	60.0%	3.3%
4-Chloro-3-methylphenol	30.1	37.5	80.3%	29.6	37.5	78.9%	1.7%
Acenaphthene	18.4	25.0	73.6%	18.0	25.0	72.0%	2.2%
4-Nitrophenol	36.4	37.5	97.1%	37.0	37.5	98.7%	1.6%
2,4-Dinitrotoluene	20.4	25.0	81.6%	20.0	25.0	80.0%	2.0%
Pentachlorophenol	28.6	37.5	76.3%	27.6	37.5	73.6%	3.6%
Phenanthrene	2.5	3.0	83.3%	2.4	3.0	80.0%	2.5%
Pyrene	19.6	25.0	78.4%	19.0	25.0	76.0%	3.1%
Chrysene	2.7	3.0	90.0%	2.6	3.0	86.7%	4.1%
Benzo(k)fluoranthene	2.5	3.0	83.3%	2.4	3.0	80.0%	2.9%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	73.6%	72.8%
2-Fluorobiphenyl	70.8%	70.0%
d14-p-Terphenyl	83.2%	81.2%
d4-1,2-Dichlorobenzene	64.0%	62.0%
d5-Phenol	69.9%	68.0%
2-Fluorophenol	66.7%	65.6%
2,4,6-Tribromophenol	83.2%	82.9%
d4-2-Chlorophenol	72.0%	72.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	MNP	DBA	TOT OUT
MB-031505	81.0%	96.0%	0
LCS-031505	83.0%	97.3%	0
LCSD-031505	62.3%	86.3%	0
SY-PL2-153A	76.3%	41.3%	0
SY-PL2-153A MS	63.0%	37.7%	0
SY-PL2-153A MSD	77.0%	31.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-4665 to 05-4665

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:52
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.0%
d14-Dibenzo(a,h)anthracene	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:22
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.3%
d14-Dibenzo(a,h)anthracene	41.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-153A
MATRIX SPIKE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:47
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	---
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	---
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	---
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	---
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	---
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracene	37.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-153A
MATRIX SPIKE DUP

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 17:12
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	---
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	---
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	---
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	---
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	---
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	77.0%
d14-Dibenzo(a,h)anthracene	31.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-PL2-153A
MS/MSD

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted MS/MSD: 03/15/05

Date Analyzed MS: 03/17/05 16:47
MSD: 03/17/05 17:12
Instrument/Analyst MS: NT1/YZ
MSD: NT1/YZ

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Acenaphthene	< 0.10	15.4	25.0	61.6%	20.4	25.0	81.6%	27.9%
Phenanthrene	< 0.10	2.19	3.00	73.0%	2.59	3.00	86.3%	16.7%
Pyrene	< 0.10	16.5	25.0	66.0%	19.6	25.0	78.4%	17.2%
Chrysene	< 0.10	2.00	3.00	66.7%	2.43	3.00	81.0%	19.4%
Benzo(k)fluoranthene	< 0.10	1.50	3.00	50.0%	1.80	3.00	60.0%	18.2%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted LCS/LCSD: 03/15/05
Date Analyzed LCS: 03/17/05 15:17
LCSD: 03/17/05 15:57
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.43	3.00	81.0%	2.20	3.00	73.3%	9.9%
Chrysene	2.61	3.00	87.0%	2.46	3.00	82.0%	5.9%
Benzo(k)fluoranthene	2.35	3.00	78.3%	2.15	3.00	71.7%	8.9%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	83.0%	62.3%
d14-Dibenzo(a,h)anthracene	97.3%	86.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	DCBP	TCMX	TOT OUT
MB-031605	126%	81.0%	0
LCS-031605	106%	82.0%	0
LCSD-031605	109%	79.0%	0
SY-PL2-153A	102%	77.2%	0
SY-PL2-153A MS	89.5%	80.2%	0
SY-PL2-153A MSD	85.5%	76.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-4665 to 05-4665

000043

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031605
METHOD BLANK

Lab Sample ID: MB-031605
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 15:25
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	126%
Tetrachlorometaxylene	81.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 16:16
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	77.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-153A
MATRIX SPIKE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 16:33
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	---
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	---
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	80.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-153A
MATRIX SPIKE DUP

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 16:50
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	---
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	---
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	76.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-153A
MS/MSD

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted MS/MSD: 03/16/05

Date Analyzed MS: 03/18/05 16:33
MSD: 03/18/05 16:50
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 5.0 mL
MSD: 5.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 1.00	4.07	5.12	79.5%	3.85	5.12	75.2%	5.6%
Aroclor 1260	< 1.00	4.63	5.12	90.4%	4.35	5.12	85.0%	6.2%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-031605
LCS/LCSD

Lab Sample ID: LCS-031605
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/16/05

Date Analyzed LCS: 03/18/05 15:42
LCSD: 03/18/05 15:59
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.15	5.12	81.1%	4.25	5.12	83.0%	2.4%
Aroclor 1260	4.78	5.12	93.4%	4.83	5.12	94.3%	1.0%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	106%	109%
Tetrachlorometaxylene	82.0%	79.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

TOTAL & DISSOLVED METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153C-F
SAMPLE

Lab Sample ID: HV02A
LIMS ID: 05-4660
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**16**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
6010B	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**472**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153B-F
SAMPLE

Lab Sample ID: HV02B
LIMS ID: 05-4661
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**3**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
6010B	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**273**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**4**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153A-F
SAMPLE

Lab Sample ID: HV02C
LIMS ID: 05-4662
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**2.4**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	**7440-47-3**	**Chromium**	5	**6**	
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**594**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**24**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153A-F
DUPLICATE

Lab Sample ID: HV02C
LIMS ID: 05-4662
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	2.4	2.5	4.1%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	6	7	15.4%	+/- 5	L
Copper	200.8	0.7	0.7	0.0%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	594	587	1.2%	+/- 20%	
Nickel	200.8	0.6	0.5	18.2%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	24	24	0.0%	+/- 20%	
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153A-F
MATRIX SPIKE

Lab Sample ID: HV02C
LIMS ID: 05-4662
Matrix: Water
Data Release Authorized
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	50 U	2,130	2,000	106%	
Arsenic	200.8	2.4	28.8	25.0	106%	
Beryllium	6010B	1 U	515	500	103%	
Cadmium	6010B	2 U	533	500	107%	
Chromium	6010B	6	500	500	98.8%	
Copper	200.8	0.7	25.6	25.0	99.6%	
Lead	200.8	1 U	27	25	108%	
Manganese	6010B	594	1,090	500	99.2%	
Nickel	200.8	0.6	24.8	25.0	96.8%	
Selenium	6010B	50 U	2,310	2,000	116%	
Silver	200.8	0.2 U	24.7	25.0	98.8%	
Thallium	6010B	50 U	2,040	2,000	102%	
Thallium	200.8	0.2 U	27.3	25.0	109%	
Vanadium	6010B	24	554	500	106%	
Zinc	6010B	6 U	528	500	106%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HV02MB
LIMS ID: 05-4660
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/17/05	7439-96-5	Manganese	1	1	U
200.8	03/17/05	200.8	03/21/05	7440-02-0	Nickel	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HV02LCS
LIMS ID: 05-4660
Matrix: Water
Data Release Authorized
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2070	2000	104%	
Arsenic	200.8	25.5	25.0	102%	
Beryllium	6010B	512	500	102%	
Cadmium	6010B	540	500	108%	
Chromium	6010B	506	500	101%	
Copper	200.8	25.6	25.0	102%	
Lead	200.8	27	25	108%	
Manganese	6010B	509	500	102%	
Nickel	200.8	24.6	25.0	98.4%	
Selenium	6010B	2270	2000	114%	
Silver	200.8	25.2	25.0	101%	
Thallium	6010B	2120	2000	106%	
Thallium	200.8	27.3	25.0	109%	
Vanadium	6010B	524	500	105%	
Zinc	6010B	510	500	102%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153C
SAMPLE

Lab Sample ID: HV02D
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**15**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
3010A	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**482**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
3010A	03/17/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153B
SAMPLE

Lab Sample ID: HV02E
LIMS ID: 05-4664
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**3**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
3010A	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**279**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**4**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**2.7**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	**7440-47-3**	**Chromium**	5	**22**	
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**4.2**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**587**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.7**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**32**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153A
DUPLICATE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	2.7	2.8	3.6%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	22	22	0.0%	+/- 5	L
Copper	200.8	4.2	4.2	0.0%	+/- 20%	
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	587	584	0.5%	+/- 20%	
Nickel	200.8	0.7	0.7	0.0%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	32	32	0.0%	+/- 20%	
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153A
MATRIX SPIKE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	50.0 U	1,700	2,000	85.0%	
Arsenic	200.8	2.72	28.9	25.0	105%	
Beryllium	6010B	1.00 U	502	500	100%	
Cadmium	6010B	2.00 U	506	500	101%	
Chromium	6010B	21.8	515	500	98.6%	
Copper	200.8	4.17	28.6	25.0	97.7%	
Lead	200.8	1.00 U	26.8	25.0	107%	
Manganese	6010B	587	1,090	500	101%	
Nickel	200.8	0.740	24.7	25.0	95.8%	
Selenium	6010B	50.0 U	2,040	2,000	102%	
Silver	200.8	0.200 U	24.2	25.0	96.8%	
Thallium	6010B	50.0 U	1,920	2,000	96.0%	
Thallium	200.8	0.200 U	27.0	25.0	108%	
Vanadium	6010B	32.0	556	500	105%	
Zinc	6010B	6.00 U	492	500	98.4%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV02MB
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/17/05	7439-96-5	Manganese	1	1	U
200.8	03/17/05	200.8	03/21/05	7440-02-0	Nickel	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HV02LCS
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2040	2000	102%	
Arsenic	200.8	26.4	25.0	106%	
Beryllium	6010B	487	500	97.4%	
Cadmium	6010B	502	500	100%	
Chromium	6010B	487	500	97.4%	
Copper	200.8	26.2	25.0	105%	
Lead	200.8	28.3	25.0	113%	
Manganese	6010B	490	500	98.0%	
Nickel	200.8	25.7	25.0	103%	
Selenium	6010B	1990	2000	99.5%	
Silver	200.8	26.4	25.0	106%	
Thallium	6010B	1940	2000	97.0%	
Thallium	200.8	29.0	25.0	116%	
Vanadium	6010B	501	500	100%	
Zinc	6010B	478	500	95.6%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Client ID: SY-PL2-153A-F
ARI ID: 05-4662 HV02C

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/10/05 031005#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Client ID: SY-PL2-153A
ARI ID: 05-4665 HV02F

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/10/05	SM 2580	mv	0.1	82.0
N-Ammonia	03/11/05 031105#2	EPA 350.1M	mg-N/L	0.100	3.40
N-Nitrate	03/10/05	Calculated	mg-N/L	0.010	0.012
N-Nitrite	03/10/05 031005#2	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/10/05 031005#1	EPA 353.2	mg-N/L	0.010	0.012
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	4.0	45.3
Sulfide	03/11/05 031105#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	15.8

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ahp
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/10/05	mg/L	< 0.010 U
N-Ammonia	03/11/05	mg-N/L	< 0.010 U
N-Nitrite	03/10/05	mg-N/L	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/10/05	mg-N/L	< 0.010 U
Sulfate	03/19/05	mg/L	< 2.0 U
Sulfide	03/11/05	mg/L	< 0.05 U
Total Organic Carbon	03/14/05	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: gap
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Sulfide	03/11/05	mg/L	6.01	8.56	70.2%

STANDARD REFERENCE RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/10/05	mg/L	0.555	0.560	99.1%
N-Ammonia SPEX 28-24AS	03/11/05	mg-N/L	0.515	0.500	103.0%
N-Nitrite ERA #23034	03/10/05	mg-N/L	0.514	0.500	102.8%
Nitrate + Nitrite (NO3+NO2) ERA #20034	03/10/05	mg-N/L	0.506	0.500	101.2%
Sulfate ERA #08113	03/19/05	mg/L	26.0	25.0	104.0%
Total Organic Carbon SPEX #28-53AS	03/14/05	mg/L	19.6	20.0	98.0%

REPLICATE RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HV02C Client ID: SY-PL2-153A-F					
Hexavalent Chrome	03/10/05	mg/L	< 0.011	< 0.011	NA
ARI ID: HV02F Client ID: SY-PL2-153A					
Redox Potential	03/10/05	mv	82.0	78.0	5.0%
N-Ammonia	03/11/05	mg-N/L	3.40	3.41	0.3%
N-Nitrite	03/10/05	mg-N/L	< 0.010	< 0.010	NA
Nitrate + Nitrite (NO3+NO2)	03/10/05	mg-N/L	0.012	0.013	8.0%
Sulfate	03/19/05	mg/L	45.3	44.6	1.6%
Sulfide	03/11/05	mg/L	< 0.05	< 0.05 < 0.05	NA

MS/MSD RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ar
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HV02C Client ID: SY-PL2-153A-F						
Hexavalent Chrome	03/10/05	mg/L	< 0.011	0.183	5.00	3.7%
ARI ID: HV02F Client ID: SY-PL2-153A						
N-Ammonia	03/11/05	mg-N/L	3.40	14.0	10.0	106.0%
N-Nitrite	03/10/05	mg-N/L	< 0.010	0.497	0.500	99.4%
Nitrate + Nitrite (NO3+NO2)	03/10/05	mg-N/L	0.012	2.35	2.50	93.5%
Sulfate	03/19/05	mg/L	45.3	147	100	101.7%
Sulfide	03/11/05	mg/L	< 0.05	6.24	8.55	73.0%
Sulfide	03/11/05	mg/L	< 0.05	6.49	8.55	75.9%

LOW LEVEL MERCURY

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0384

ARI Client: The Boeing Company
ARI Project ID: HV02

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-PL2-153C-F	3/9/2005	05BR0384 - 1	3/10/2005
SY-PL2-153B-F	3/9/2005	05BR0384 - 2	3/10/2005
SY-PL2-153A-F	3/9/2005	05BR0384 - 3	3/10/2005
SY-PL2-153C	3/9/2005	05BR0384 - 4	3/10/2005
SY-PL2-153B	3/9/2005	05BR0384 - 5	3/10/2005
SY-PL2-153A	3/9/2005	05BR0384 - 6	3/10/2005

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0384

ARI Client: The Boeing Company
ARI Project ID: HV02

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-153C	05BR0384 - 4	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153B	05BR0384 - 5	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153A	05BR0384 - 6	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report # 05BR0384

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0384

ARI Client: The Boeing Company
ARI Project ID: HV02

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-153C-F	05BR0384 - 1	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153B-F	05BR0384 - 2	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153A-F	05BR0384 - 3	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U

BROOKS RAND LLC

DATA QUALIFIERS and their DEFINITIONS
(Effective 12/09/04)

B - Detected by the instrument, above MDL but less than the PQL (ML). Measured result is reported and considered an estimate.

E - An estimated value due to the presence of interferences. A full explanation will be presented in the case narrative.

H - Holding time and/or preservation requirements not met. Results are estimated.

J – Estimated value.

M -Duplicate precision (RPD) was not within acceptance criteria.

N - Spike recovery was not within acceptance criteria.

R - Rejected, unusable value. A full explanation will be presented in the QA Report.

U – Result below the method detection limit (MDL) and therefore analyte was not detected. Results reported at the MDL.

These qualifiers are based on those previously utilized by Brooks Rand, Ltd., those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18 and the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses; USEPA; July 1988. These supercede all previous qualifiers ever employed by BRL.

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0140
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0366, 05BR0370, 05BR0371, 05BR0381, 05BR0382, 05BR0383 & 05BR0384
Project:	ARI004, GLT002, LOV001, BCT001, LAF001 & NEL002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 15, 2005
Calibration Date:	Match 14, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

A dark blue precipitate was formed after the addition of $SnCl_2$ to sample **05BR0383-01** at full volume. When 1 mL of the sample was analyzed, no precipitate was formed and the result was within calibration. On this basis, this sample has not been qualified.

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.16.05

Tressa K. Pearson-Franks
Quality Assurance Associate

000078

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 28, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HV22

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted eight water samples in good condition on March 10, 2005. The samples were received at a cooler temperatures of 5.0°C and 6.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs; total and dissolved metals and various conventional parameters. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV22

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HV22	Turn-around Requested: STANDARD
ARI Client Company: EPI / Boeing	Phone: 425-241-5400
Client Contact: Doug Kunkel / Josh Berthal	
Client Project Name: PZDG - South Yard Area	
Client Project #: 17505	Samplers: JB / TK

Page: 1	of 1
Date: 3/10/05	Ice Present?
No. of Coolers: 2	Cooler Temps: 5.0 / 6.0

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	Metals (Dissolved)	Metals (Total)	Chr. VI	Nitrate Nitrite Boron Sulfate	Ammonia TOC	Sulfide	LL Hg D.2	LL Hg Total
SY-PL2-120A	3/10/05	0955	WATER	1 L	X	X	X		X		X	X	X		
SY-PL2-120A-F	3/10/05	0955	WATER	3				X		X				X	
SY-PL2-154A	3/10/05	1500	WATER	1 L	X	X	X		X		X	X	X		
SY-PL2-154A-F	3/10/05	1500	WATER	3				X		X				X	
SY-PL2-154B	3/10/05	1550	WATER	5	X				X						X
SY-PL2-154B-F	3/10/05	1550	WATER	2				X						X	
SY-PL2-154C	3/10/05	1640	WATER	5	X				X						X
SY-PL2-154C-F	3/10/05	1640	WATER	2				X						X	

Notes/Comments

Comments/Special Instructions: Copy: Dan Machit

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by (Signature)	Received by: (Signature)
Printed Name: Tatsu Komada	Printed Name: Eric Branson	Printed Name:	Printed Name:
Company: EPI	Company: ARI	Company:	Company:
Date & Time: 3/10/05 5:45 PM	Date & Time: 3/10/05 - 1745	Date & Time:	Date & Time:

000002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV22

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV22
March 28, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0 with the exception of sample **SY-PL2-154C** which had a pH 6-8. The samples were analyzed on 3/18/05 within the method recommended holding time.

There was no trip blank received with this set of samples.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The samples were extracted on 3/15/05 and were analyzed on 3/17/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The samples were extracted on 3/15/05 and were analyzed on 3/17/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The samples were extracted on 3/16/05 and were analyzed on 3/18/05 within the method recommended holding time.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV22
March 28, 2005

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved and Total Metals by Methods 6010 and 200.8

The samples were prepared on 3/15/05 and 3/17/05 and were analyzed between 3/17/05 and 3/21/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of element contamination.

Samples: Samples **SY-PL2-154C** and **SY-PL2-154C-F** were received unpreserved. The samples were pH adjusted prior to sample preparation.

No anomalies were encountered for these samples.

Matrix Spike: A matrix spike was performed on samples **SY-PL2-154A-F** and **SY-PL2-153A.** All percent recoveries were in control.

Matrix Duplicate: A matrix duplicate was performed on samples **SY-PL2-154A-F** and **SY-PL2-153A.** All RPDs were in control.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Conventional Parameters

The Hexavalent chrome samples were analyzed on 3/11/05 within the method recommended 24 hour holding time.
The Redox Potential samples were analyzed on 3/11/05 within the method recommended 24 hour holding time.
Ammonia samples were analyzed on 3/11/05 within the method recommended 28 day holding time.
Nitrate, nitrite and NO2+NO3 samples were analyzed on 3/12/05 within the method recommended 48 hour holding time.
Sulfate samples were analyzed on 3/19/05 within the method recommended 28 day holding time.
Sulfide samples were analyzed on 3/11/05 within the method recommended 7 day holding time.
Total Organic Carbon samples were analyzed on 3/14/05 within the method recommended 28 day holding time.

Method Blank(s): All method blanks were free of element contamination.

Samples: No anomalies were encountered for these samples.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV22
March 28, 2005

LCS/SRM/Replicate/MS/MSD: All recoveries were within compliance with the exception of the sulfide LCS recovery which was low at 70.2%.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV22

prepared
by

Analytical Resources, Inc.

VOLATILES

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HV22

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
031805MB	Method Blank	99.6%	97.8%	85.6%	99.7%	0
HV22LCS	Lab Control	99.9%	98.4%	96.2%	90.8%	0
HV22LCD	LCDuplicate	102%	106%	105%	99.7%	0
HV22E	SY-PL2-120A	106%	102%	90.2%	106%	0
HV22F	SY-PL2-154A	110%	104%	94.8%	110%	0
HV22G	SY-PL2-154B	114%	106%	90.5%	104%	0
HV22H	SY-PL2-154C	116%	106%	93.0%	108%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031805**
 METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 12:49

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.6%
d8-Toluene	97.8%
Bromofluorobenzene	85.6%
d4-1,2-Dichlorobenzene	99.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 16:52

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.2**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	102%
Bromofluorobenzene	90.2%
d4-1,2-Dichlorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 17:20

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**2.9**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.4**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**9.0**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**3.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.3**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	110%
d8-Toluene	104%
Bromofluorobenzene	94.8%
d4-1,2-Dichlorobenzene	110%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-154B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV22G
LIMS ID: 05-4779
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 17:47

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	**Trichlorofluoromethane**	**0.2**	**0.6**
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	106%
Bromofluorobenzene	90.5%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-154C
SAMPLE

Lab Sample ID: HV22H
LIMS ID: 05-4780
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 18:14

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	**Chloroethane**	**0.2**	**0.3**
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**0.6**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	**Trichlorofluoromethane**	**0.2**	**0.5**
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	106%
Bromofluorobenzene	93.0%
d4-1,2-Dichlorobenzene	108%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 2

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/18/05 11:45
LCSD: 03/18/05 12:21

Sample Amount LCS: 20 0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
Bromomethane	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
Vinyl Chloride	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Chloroethane	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Methylene Chloride	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Acetone	18.4	20.0	92.0%	15.9	20.0	79.5%	14.6%
Carbon Disulfide	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
1,1-Dichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
trans-1,2-Dichloroethene	4.2	4.0	105%	4.1	4.0	102%	2.4%
cis-1,2-Dichloroethene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Chloroform	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,2-Dichloroethane	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
2-Butanone	15.7	20.0	78.5%	15.7	20.0	78.5%	0.0%
1,1,1-Trichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
Carbon Tetrachloride	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Vinyl Acetate	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Bromodichloromethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
1,2-Dichloropropane	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
cis-1,3-Dichloropropene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Trichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
Dibromochloromethane	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Benzene	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans 1,3 Dichloropropene	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
2-Chloroethylvinylether	2.1	4.0	52.5%	2.1	4.0	52.5%	0.0%
Bromoform	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	13.7	20.0	68.5%	14.5	20.0	72.5%	5.7%
2-Hexanone	14.0	20.0	70.0%	14.9	20.0	74.5%	6.2%
Tetrachloroethene	4.3	4.0	108%	4.3	4.0	108%	0.0%
1,1,2,2-Tetrachloroethane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
Toluene	4.0	4.0	100%	4.2	4.0	105%	4.9%
Chlorobenzene	4.1	4.0	102%	4.3	4.0	108%	4.8%
Ethylbenzene	4.7	4.0	118%	4.9	4.0	122%	4.2%
Styrene	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Trichlorofluoromethane	4.3	4.0	108%	4.1	4.0	102%	4.8%
1,1,2-Trichloro-1,2,2-trifl	4.2	4.0	105%	4.0	4.0	100%	4.9%
m,p-Xylene	9.3	8.0	116%	9.5	8.0	119%	2.1%
o-Xylene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4777
Matrix: Water
Date Analyzed: 03/18/05 11:45
LCSD: 03/18/05 12:21

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.9%	102%
d8-Toluene	98.4%	106%
Bromofluorobenzene	96.2%	105%
d4-1,2-Dichlorobenzene	90.8%	99.7%

SEMIVOLATILES

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031505	75.6%	70.4%	86.8%	69.2%	71.2%	68.3%	81.1%	75.2%	0
LCS-031505	73.6%	70.8%	83.2%	64.0%	69.9%	66.7%	83.2%	72.0%	0
LCSD-031505	72.8%	70.0%	81.2%	62.0%	68.0%	65.6%	82.9%	72.3%	0
SY-PL2-120A	75.6%	72.8%	81.6%	66.4%	69.9%	67.2%	83.2%	74.9%	0
SY-PL2-154A	65.2%	63.6%	69.2%	56.8%	58.7%	57.3%	75.5%	64.5%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-4777 to 05-4778

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 10:48
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4777
Matrix: Water
Date Analyzed: 03/17/05 10:48

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.6%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	86.8%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	71.2%	2-Fluorophenol	68.3%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	75.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:05
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Date Analyzed: 03/17/05 14:05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.6%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	81.6%	d4-1,2-Dichlorobenzene	66.4%
d5-Phenol	69.9%	2-Fluorophenol	67.2%
2,4,6-Tribromophenol	83.2%	d4-2-Chlorophenol	74.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:38
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Date Analyzed: 03/17/05 14:38

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.2%	2-Fluorobiphenyl	63.6%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	58.7%	2-Fluorophenol	57.3%
2,4,6-Tribromophenol	75.5%	d4-2-Chlorophenol	64.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/17/05 11:20
LCSD: 03/17/05 11:53
Instrument/Analyst LCS: NT4/Van
LCSD: NT4/Van
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	25.0	37.5	66.7%	24.7	37.5	65.9%	1.2%
2-Chlorophenol	27.0	37.5	72.0%	26.6	37.5	70.9%	1.5%
1,4-Dichlorobenzene	14.8	25.0	59.2%	14.7	25.0	58.8%	0.7%
N-Nitroso-Di-N-Propylamine	19.2	25.0	76.8%	18.7	25.0	74.8%	2.6%
1,2,4-Trichlorobenzene	15.5	25.0	62.0%	15.0	25.0	60.0%	3.3%
4-Chloro-3-methylphenol	30.1	37.5	80.3%	29.6	37.5	78.9%	1.7%
Acenaphthene	18.4	25.0	73.6%	18.0	25.0	72.0%	2.2%
4-Nitrophenol	36.4	37.5	97.1%	37.0	37.5	98.7%	1.6%
2,4-Dinitrotoluene	20.4	25.0	81.6%	20.0	25.0	80.0%	2.0%
Pentachlorophenol	28.6	37.5	76.3%	27.6	37.5	73.6%	3.6%
Phenanthrene	2.5	3.0	83.3%	2.4	3.0	80.0%	2.5%
Pyrene	19.6	25.0	78.4%	19.0	25.0	76.0%	3.1%
Chrysene	2.7	3.0	90.0%	2.6	3.0	86.7%	4.1%
Benzo(k)fluoranthene	2.5	3.0	83.3%	2.4	3.0	80.0%	2.9%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	73.6%	72.8%
2-Fluorobiphenyl	70.8%	70.0%
d14-p-Terphenyl	83.2%	81.2%
d4-1,2-Dichlorobenzene	64.0%	62.0%
d5-Phenol	69.9%	68.0%
2-Fluorophenol	66.7%	65.6%
2,4,6-Tribromophenol	83.2%	82.9%
d4-2-Chlorophenol	72.0%	72.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

SIM PNA

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	MNP	DBA	TOT OUT
MB-031505	81.0%	96.0%	0
LCS-031505	83.0%	97.3%	0
LCSD-031505	62.3%	86.3%	0
SY-PL2-120A	71.3%	80.7%	0
SY-PL2-154A	65.7%	53.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-4777 to 05-4778

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-031505
METHOD BLANK

Lab Sample ID: MB-031505
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:52
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	81.0%
d14-Dibenzo(a,h)anthracene	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 17:37
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	71.3%
d14-Dibenzo(a,h)anthracene	80.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:03
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	65.7%
d14-Dibenzo(a,h)anthracene	53.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-031505
LCS/LCSD

Lab Sample ID: LCS-031505
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted LCS/LCSD: 03/15/05

Date Analyzed LCS: 03/17/05 15:17
LCSD: 03/17/05 15:57
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.43	3.00	81.0%	2.20	3.00	73.3%	9.9%
Chrysene	2.61	3.00	87.0%	2.46	3.00	82.0%	5.9%
Benzo(k)fluoranthene	2.35	3.00	78.3%	2.15	3.00	71.7%	8.9%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	83.0%	62.3%
d14-Dibenzo(a,h)anthracene	97.3%	86.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

PCB

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	DCBP	TCMX	TOT OUT
MB-031605	126%	81.0%	0
LCS-031605	106%	82.0%	0
LCSD-031605	109%	79.0%	0
SY-PL2-120A	97.0%	81.8%	0
SY-PL2-154A	109%	62.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-4777 to 05-4778

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031605
METHOD BLANK

Lab Sample ID: MB-031605
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 15:25
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	126%
Tetrachlorometaxylene	81.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 17:07
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in μg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.0%
Tetrachlorometaxylene	81.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 17:24
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	109%
Tetrachlorometaxylene	62.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-031605
LCS/LCSD

Lab Sample ID: LCS-031605
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/16/05

Date Analyzed LCS: 03/18/05 15:42
LCSD: 03/18/05 15:59
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.15	5.12	81.1%	4.25	5.12	83.0%	2.4%
Aroclor 1260	4.78	5.12	93.4%	4.83	5.12	94.3%	1.0%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	106%	109%
Tetrachlorometaxylene	82.0%	79.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-120A-F
SAMPLE

Lab Sample ID: HV22A
LIMS ID: 05-4773
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**3.8**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**0.6**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**893**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**1.3**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-154A-F
SAMPLE

Lab Sample ID: HV22B
LIMS ID: 05-4774
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**21.3**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**2,070**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.8**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**11**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-154B-F
SAMPLE

Lab Sample ID: HV22C
LIMS ID: 05-4775
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.5	**3.2**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**374**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-154C-F
SAMPLE

Lab Sample ID: HV22D
LIMS ID: 05-4776
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	2	2	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	5	5	U
6010B	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**351**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	2	**4**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	1	1	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.5	**46.7**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	1	**3**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
3010A	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**937**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**3**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**6**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**21.9**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**2.8**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**2,170**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**12**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-154B
SAMPLE

Lab Sample ID: HV22G
LIMS ID: 05-4779
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.5	**3.5**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**366**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-154C
SAMPLE

Lab Sample ID: HV22H
LIMS ID: 05-4780
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	2	2	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	5	5	U
3010A	03/15/05	6010B	03/17/05	**7439-96-5**	**Manganese**	1	**338**	
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	2	**4**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	1	1	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153A-F
DUPLICATE

Lab Sample ID: HV02C
LIMS ID: 05-4662
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	2.4	2.5	4.1%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	6	7	15.4%	+/- 5	L
Copper	200.8	0.7	0.7	0.0%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	594	587	1.2%	+/- 20%	
Nickel	200.8	0.6	0.5	18.2%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	24	24	0.0%	+/- 20%	
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153A-F
MATRIX SPIKE

Lab Sample ID: HV02C
LIMS ID: 05-4662
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	50 U	2,130	2,000	106%	
Arsenic	200.8	2.4	28.8	25.0	106%	
Beryllium	6010B	1 U	515	500	103%	
Cadmium	6010B	2 U	533	500	107%	
Chromium	6010B	6	500	500	98.8%	
Copper	200.8	0.7	25.6	25.0	99.6%	
Lead	200.8	1 U	27	25	108%	
Manganese	6010B	594	1,090	500	99.2%	
Nickel	200.8	0.6	24.8	25.0	96.8%	
Selenium	6010B	50 U	2,310	2,000	116%	
Silver	200.8	0.2 U	24.7	25.0	98.8%	
Thallium	6010B	50 U	2,040	2,000	102%	
Thallium	200.8	0.2 U	27.3	25.0	109%	
Vanadium	6010B	24	554	500	106%	
Zinc	6010B	6 U	528	500	106%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV02MB
LIMS ID: 05-4660
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/17/05	7439-96-5	Manganese	1	1	U
200.8	03/17/05	200.8	03/21/05	7440-02-0	Nickel	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: LAB CONTROL

Lab Sample ID: HV02LCS
LIMS ID: 05-4660
Matrix: Water
Data Release Authorized
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2070	2000	104%	
Arsenic	200.8	25.5	25.0	102%	
Beryllium	6010B	512	500	102%	
Cadmium	6010B	540	500	108%	
Chromium	6010B	506	500	101%	
Copper	200.8	25.6	25.0	102%	
Lead	200.8	27	25	108%	
Manganese	6010B	509	500	102%	
Nickel	200.8	24.6	25.0	98.4%	
Selenium	6010B	2270	2000	114%	
Silver	200.8	25.2	25.0	101%	
Thallium	6010B	2120	2000	106%	
Thallium	200.8	27.3	25.0	109%	
Vanadium	6010B	524	500	105%	
Zinc	6010B	510	500	102%	

Reported in $\mu g/L$

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153A
DUPLICATE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	2.7	2.8	3.6%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	22	22	0.0%	+/- 5	L
Copper	200.8	4.2	4.2	0.0%	+/- 20%	
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	587	584	0.5%	+/- 20%	
Nickel	200 8	0.7	0.7	0.0%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200 8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	32	32	0.0%	+/- 20%	
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153A
MATRIX SPIKE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	50.0 U	1,700	2,000	85.0%	
Arsenic	200.8	2.72	28.9	25.0	105%	
Beryllium	6010B	1.00 U	502	500	100%	
Cadmium	6010B	2.00 U	506	500	101%	
Chromium	6010B	21.8	515	500	98.6%	
Copper	200.8	4.17	28.6	25.0	97.7%	
Lead	200.8	1.00 U	26.8	25.0	107%	
Manganese	6010B	587	1,090	500	101%	
Nickel	200.8	0.740	24.7	25.0	95.8%	
Selenium	6010B	50.0 U	2,040	2,000	102%	
Silver	200.8	0.200 U	24.2	25.0	96.8%	
Thallium	6010B	50.0 U	1,920	2,000	96.0%	
Thallium	200.8	0.200 U	27.0	25.0	108%	
Vanadium	6010B	32.0	556	500	105%	
Zinc	6010B	6.00 U	492	500	98.4%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV02MB
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/17/05	7439-96-5	Manganese	1	1	U
200.8	03/17/05	200.8	03/21/05	7440-02-0	Nickel	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HV02LCS
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized
Reported: 09/08/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2040	2000	102%	
Arsenic	200.8	26.4	25.0	106%	
Beryllium	6010B	487	500	97.4%	
Cadmium	6010B	502	500	100%	
Chromium	6010B	487	500	97.4%	
Copper	200.8	26.2	25.0	105%	
Lead	200.8	28.3	25.0	113%	
Manganese	6010B	490	500	98.0%	
Nickel	200.8	25.7	25.0	103%	
Selenium	6010B	1990	2000	99.5%	
Silver	200.8	26.4	25.0	106%	
Thallium	6010B	1940	2000	97.0%	
Thallium	200.8	29.0	25.0	116%	
Vanadium	6010B	501	500	100%	
Zinc	6010B	478	500	95.6%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

L50000

General Chemistry

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-120A-F
ARI ID: 05-4773 HV22A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-154A-F
ARI ID: 05-4774 HV22B

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/L	0.011	0.012

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: AHP
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-120A
ARI ID: 05-4777 HV22E

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/11/05	SM 2580	mv	0.1	64.0
N-Ammonia	03/11/05 031105#1	EPA 350.1M	mg-N/L	0.020	1.26
N-Nitrate	03/12/05	Calculated	mg-N/L	0.010	0.036
N-Nitrite	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	0.036
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	10.0	105
Sulfide	03/11/05 031105#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	4.45

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-154A
ARI ID: 05-4778 HV22F

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/11/05	SM 2580	mv	0.1	49.0
N-Ammonia	03/11/05 031105#1	EPA 350.1M	mg-N/L	0.100	6.18
N-Nitrate	03/12/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	0.016
Nitrate + Nitrite (NO3+NO2)	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	14.1
Sulfide	03/11/05 031105#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	14.5

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: gap
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/11/05	mg/L	< 0.010 U
N-Ammonia	03/11/05	mg-N/L	< 0.010 U
N-Nitrite	03/12/05	mg-N/L	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/12/05	mg-N/L	< 0.010 U
Sulfate	03/19/05	mg/L	< 2.0 U
Sulfide	03/11/05	mg/L	< 0.05 U
Total Organic Carbon	03/14/05	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QAP
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Sulfide	03/11/05	mg/L	6.01	8.56	70.2%

STANDARD REFERENCE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: arf
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/11/05	mg/L	0.572	0.560	102.1%
N-Ammonia SPEX 28-24AS	03/11/05	mg-N/L	0.505	0.500	101.0%
N-Nitrite ERA #23034	03/12/05	mg-N/L	0.497	0.500	99.4%
Nitrate + Nitrite (NO3+NO2) ERA #20034	03/12/05	mg-N/L	0.529	0.500	105.8%
Sulfate ERA #08113	03/19/05	mg/L	26.0	25.0	104.0%
Total Organic Carbon SPEX #28-53AS	03/14/05	mg/L	19.6	20.0	98.0%

REPLICATE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HV22A Client ID: SY-PL2-120A-F					
Hexavalent Chrome	03/11/05	mg/L	< 0.011	< 0.011	NA
ARI ID: HV22E Client ID: SY-PL2-120A					
Redox Potential	03/11/05	mv	64.0	62.0	3.2%
N-Ammonia	03/11/05	mg-N/L	1.26	1.26	0.0%
N-Nitrite	03/12/05	mg-N/L	< 0.010	< 0.010	NA
Nitrate + Nitrite (NO3+NO2)	03/12/05	mg-N/L	0.036	0.036	0.0%

MS/MSD RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: gap
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HV22A Client ID: SY-PL2-120A-F						
Hexavalent Chrome	03/11/05	mg/L	< 0.011	0.119	5.00	2.4%
ARI ID: HV22E Client ID: SY-PL2-120A						
N-Ammonia	03/11/05	mg-N/L	1.26	3.95	2.50	107.6%
N-Nitrite	03/12/05	mg-N/L	< 0.010	0.495	0.500	99.0%
Nitrate + Nitrite (NO3+NO2)	03/12/05	mg-N/L	0.036	0.554	0.500	103.6%

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0391

ARI Client: The Boeing Company
ARI Project ID: HV22

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-PL2-120A-F	3/10/2005	05BR0391 - 1	3/11/2005
SY-PL2-154A-F	3/10/2005	05BR0391 - 2	3/11/2005
SY-PL2-154B-F	3/10/2005	05BR0391 - 3	3/11/2005
SY-PL2-154C-F	3/10/2005	05BR0391 - 4	3/11/2005
SY-PL2-120A	3/10/2005	05BR0391 - 5	3/11/2005
SY-PL2-154A	3/10/2005	05BR0391 - 6	3/11/2005
SY-PL2-154B	3/10/2005	05BR0391 - 7	3/11/2005
SY-PL2-154C	3/10/2005	05BR0391 - 8	3/11/2005

Thursday, March 24, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0391

ARI Client: The Boeing Company
ARI Project ID: HV22

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-120A	05BR0391 - 5	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154A	05BR0391 - 6	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154B	05BR0391 - 7	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154C	05BR0391 - 8	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U

Thursday, March 24, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0391

ARI Client: The Boeing Company
ARI Project ID: HV22

Hg, dissolved

Sample identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-120A-F	05BR0391 - 1	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154A-F	05BR0391 - 2	3/15/2005	3/16/2005	05-0147	60.400	ng/L	
SY-PL2-154B-F	05BR0391 - 3	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154C-F	05BR0391 - 4	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U

Thursday, March 24, 2005

Project Manager

BROOKS RAND LLC

DATA QUALIFIERS and their DEFINITIONS
(Effective 12/09/04)

B - Detected by the instrument, above MDL but less than the PQL (ML). Measured result is reported and considered an estimate.

E - An estimated value due to the presence of interferences. A full explanation will be presented in the case narrative.

H - Holding time and/or preservation requirements not met. Results are estimated.

J – Estimated value.

M -Duplicate precision (RPD) was not within acceptance criteria.

N - Spike recovery was not within acceptance criteria.

R - Rejected, unusable value. A full explanation will be presented in the QA Report.

U – Result below the method detection limit (MDL) and therefore analyte was not detected. Results reported at the MDL.

These qualifiers are based on those previously utilized by Brooks Rand, Ltd., those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18 and the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses; USEPA; July 1988. These supercede all previous qualifiers ever employed by BRL.

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0147
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0378, 05BR0386, 05BR0391, 05BR0401 & 05BR0402
Project:	ARI004, BSK001, CMX001 & MEL002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 16, 2005
Calibration Date:	Match 14, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.17.05

Tressa K. Pearson-Franks
Quality Assurance Associate

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 30, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HV41

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted ten water samples in good condition on March 11, 2005. The samples were received at a cooler temperatures of 13.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, total and dissolved metals and various conventional parameters. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV41

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HV41	Turn-around Requested: STANDARD
ARI Client Company: EPI / Boeing	Phone: 425-395-0010
Client Contact: Doug Kunkel / Josh Bernthal	
Client Project Name: P20G - South Yard Area	
Client Project #: 17505	Samplers: JB / JK

Page: 1	of 1
Date: 3/11/05	Ice Present? NO
No. of Coolers: 2	Cooler Temps: 13.0, 13.0

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	VOC	SVOC	PCBs	Metals (Total)	Metals (Dis)	Chr. IV	Ammonia TOC	Reactive Per. Nitrate Nitrite Sulfate	Sulfide	LL Hg Total	LL Hg Dis
SY-PLZ-156A	3/11/05	0900	WATER	9	X	X	X	X						X	
SY-PLZ-156A-F	3/11/05	0900	WATER	3					X	X					X
SY-PLZ-11156A-1	3/11/05	0700	WATER	9	X	X	X	X						X	
SY-PLZ-11156A-F-1	3/11/05	0700	WATER	3					X	X					X
SY-PLZ-151C	3/11/05	1100	WATER	5	X			X						X	
SY-PLZ-151C-F	3/11/05	1100	WATER	2					X						X
SY-PLZ-151B	3/11/05	1200	WATER	5	X			X						X	
SY-PLZ-151B-F	3/11/05	1200	WATER	2					X						X
SY-PLZ-151A	3/11/05	1300	WATER	8	X			X			X	X	X	X	
SY-PLZ-151A-F	3/11/05	1300	WATER	3					X	X					X

Comments/Special Instructions

000002

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Printed Name: Tatsu Komada	Printed Name: Brian Kegel	Printed Name:	Printed Name:
Company: EPI	Company: ARI	Company:	Company:
Date & Time: 3/11/05 3:15PM	Date & Time: 3/11/05 1515	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV41

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV41
March 30, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0 with the exception of sample **SY-PL2-151C** which had a pH 6-8. The samples were analyzed on 3/18/05 within the method recommended holding time.

There was no trip blank received with this set of samples.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The samples were extracted on 3/17/05 and were analyzed on 3/22/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The samples were extracted on 3/17/05 and were analyzed on 3/22/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank contained naphthalene at 0.13ug/L. Associated sample naphthalene hits have been "B" flagged.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The samples were extracted on 3/17/05 and were analyzed on 3/21/05 within the method recommended holding time.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV41
March 30, 2005

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved and Total Metals by Methods 6010 and 200.8

The samples were prepared on 3/15/05 and 3/16/05 and were analyzed between 3/21/05 and 3/22/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of element contamination.

Samples: Samples **SY-PL2-151C** and **SY-PL2-151C-F** were received unpreserved. The samples were pH adjusted prior to sample preparation.

No anomalies were encountered for these samples.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Conventional Parameters

The Hexavalent chrome samples were analyzed on 3/11/05 within the method recommended 24 hour holding time. Sample **SY-PL2-11156A-F-1** requested Hexavalent chrome analysis, but no sample volume was received. The sampler was notified immediately. No extra volume was received for this sample to perform Hexavalent chrome analysis.
The Redox Potential samples were analyzed on 3/11/05 within the method recommended 24 hour holding time.
Ammonia samples were analyzed on 3/22/05 within the method recommended 28 day holding time.
Nitrate, nitrite and NO2+NO3 samples were analyzed on 3/12/05 within the method recommended 48 hour holding time.
Sulfate samples were analyzed on 3/19/05 within the method recommended 28 day holding time.
Sulfide samples were analyzed on 3/17/05 within the method recommended 7 day holding time.
Total Organic Carbon samples were analyzed on 3/14/05 within the method recommended 28 day holding time.

Method Blank(s): All method blanks were free of element contamination.

Samples: No anomalies were encountered for these samples.

MS/MSD: The nitrate and nitrite matrix spikes were performed on sample **SY-PL2-151A.** The spike recovery for both NO3 and NO2 failed low in the initial analysis. The samples were re-prepared and re-analyzed with similar low MS recoveries. No further corrective action was taken.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV41
March 30, 2005

All other MS recoveries were in control.

LCS/SRM/Replicate: All recoveries were in control.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV41

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HV41

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
031805MB	Method Blank	99.6%	97.8%	85.6%	99.7%	0
HV41LCS	Lab Control	99.9%	98.4%	96.2%	90.8%	0
HV41LCD	LCDuplicate	102%	106%	105%	99.7%	0
HV41F	SY-PL2-156A	128%	102%	96.0%	111%	0
HV41G	SY-PL2-11156A-1	112%	97.8%	89.0%	106%	0
HV41H	SY-PL2-151C	126%	103%	94.0%	110%	0
HV41I	SY-PL2-151B	122%	100%	92.5%	108%	0
HV41J	SY-PL2-151A	110%	96.5%	92.5%	104%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-031805**
 METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 12:49

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.6%
d8-Toluene	97.8%
Bromofluorobenzene	85.6%
d4-1,2-Dichlorobenzene	99.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 20:03

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**8.8**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**1.8**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**4.0**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.6**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.4**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	102%
Bromofluorobenzene	96.0%
d4-1,2-Dichlorobenzene	111%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-11156A-1**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 20:30

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**6.7**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.0**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**3.9**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.5**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.4**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in μg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	97.8%
Bromofluorobenzene	89.0%
d4-1,2-Dichlorobenzene	106%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-151C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV41H
LIMS ID: 05-5001
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 20:57

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	103%
Bromofluorobenzene	94.0%
d4-1,2-Dichlorobenzene	110%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-151B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV41I
LIMS ID: 05-5002
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 21:24

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**5.4**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	100%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	108%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-151A**
 SAMPLE

Lab Sample ID: HV41J
LIMS ID: 05-5003
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 21:52

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**1.8**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.8**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**6.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	96.5%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031805**
 LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/18/05 11:45
LCSD: 03/18/05 12:21

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
Bromomethane	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
Vinyl Chloride	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Chloroethane	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Methylene Chloride	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Acetone	18.4	20.0	92.0%	15.9	20.0	79.5%	14.6%
Carbon Disulfide	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
1,1-Dichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
trans-1,2-Dichloroethene	4.2	4.0	105%	4.1	4.0	102%	2.4%
cis-1,2-Dichloroethene	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
Chloroform	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,2-Dichloroethane	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
2-Butanone	15.7	20.0	78.5%	15.7	20.0	78.5%	0.0%
1,1,1-Trichloroethane	4.1	4.0	102%	4.0	4.0	100%	2.5%
Carbon Tetrachloride	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Vinyl Acetate	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Bromodichloromethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
1,2-Dichloropropane	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
cis-1,3-Dichloropropene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Trichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
Dibromochloromethane	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Benzene	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans-1,3-Dichloropropene	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
2-Chloroethylvinylether	2.1	4.0	52.5%	2.1	4.0	52.5%	0.0%
Bromoform	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	13.7	20.0	68.5%	14.5	20.0	72.5%	5.7%
2-Hexanone	14.0	20.0	70.0%	14.9	20.0	74.5%	6.2%
Tetrachloroethene	4.3	4.0	108%	4.3	4.0	108%	0.0%
1,1,2,2-Tetrachloroethane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
Toluene	4.0	4.0	100%	4.2	4.0	105%	4.9%
Chlorobenzene	4.1	4.0	102%	4.3	4.0	108%	4.8%
Ethylbenzene	4.7	4.0	118%	4.9	4.0	122%	4.2%
Styrene	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Trichlorofluoromethane	4.3	4.0	108%	4.1	4.0	102%	4.8%
1,1,2-Trichloro-1,2,2-trifl	4.2	4.0	105%	4.0	4.0	100%	4.9%
m,p-Xylene	9.3	8.0	116%	9.5	8.0	119%	2.1%
o-Xylene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-031805**
 LCS/LCSD

Lab Sample ID: LCS-031805 QC Report No: HV41-The Boeing Company
LIMS ID: 05-4999 Project: P2DG-South Yard Area
Matrix: Water 17505
Date Analyzed: 03/18/05 11:45 Purge Volume: 20.0 mL
LCSD: 03/18/05 12:21 LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.9%	102%
d8-Toluene	98.4%	106%
Bromofluorobenzene	96.2%	105%
d4-1,2-Dichlorobenzene	90.8%	99.7%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031705	72.8%	69.2%	83.6%	64.4%	70.4%	67.5%	79.2%	73.1%	0
LCS-031705	72.4%	68.0%	87.2%	63.6%	68.5%	64.5%	82.1%	68.3%	0
LCSD-031705	80.0%	74.8%	91.2%	71.2%	76.3%	72.3%	87.2%	76.8%	0
SY-PL2-156A	69.2%	66.8%	69.2%	62.0%	67.5%	62.9%	79.2%	68.5%	0
SY-PL2-11156A-1	68.4%	65.6%	70.8%	61.2%	67.7%	62.1%	80.5%	68.0%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-4999 to 05-5000

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031705
METHOD BLANK

Lab Sample ID: MB-031705
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized: MW
Reported: 03/25/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 12:54
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031705
METHOD BLANK

Lab Sample ID: MB-031705
LIMS ID: 05-4999
Matrix: Water
Date Analyzed: 03/22/05 12:54

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.8%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	83.6%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	70.4%	2-Fluorophenol	67.5%
2,4,6-Tribromophenol	79.2%	d4-2-Chlorophenol	73.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 21:42
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Date Analyzed: 03/22/05 21:42

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	67.5%	2-Fluorophenol	62.9%
2,4,6-Tribromophenol	79.2%	d4-2-Chlorophenol	68.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 22:15
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Date Analyzed: 03/22/05 22:15

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.4%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	70.8%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	67.7%	2-Fluorophenol	62.1%
2,4,6-Tribromophenol	80.5%	d4-2-Chlorophenol	68.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031705
LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted LCS/LCSD: 03/17/05

Date Analyzed LCS: 03/22/05 13:27
LCSD: 03/22/05 14:00
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	24.6	37.5	65.6%	27.2	37.5	72.5%	10.0%
2-Chlorophenol	25.4	37.5	67.7%	28.8	37.5	76.8%	12.5%
1,4-Dichlorobenzene	16.0	25.0	64.0%	17.8	25.0	71.2%	10.7%
N-Nitroso-Di-N-Propylamine	18.6	25.0	74.4%	20.4	25.0	81.6%	9.2%
1,2,4-Trichlorobenzene	16.2	25.0	64.8%	18.0	25.0	72.0%	10.5%
4-Chloro-3-methylphenol	29.8	37.5	79.5%	31.0	37.5	82.7%	3.9%
Acenaphthene	18.3	25.0	73.2%	20.0	25.0	80.0%	8.9%
4-Nitrophenol	37.9	37.5	101%	39.6	37.5	106%	4.4%
2,4-Dinitrotoluene	20.4	25.0	81.6%	22.1	25.0	88.4%	8.0%
Pentachlorophenol	29.0	37.5	77.3%	31.2	37.5	83.2%	7.3%
Phenanthrene	2.5	3.0	83.3%	2.8	3.0	93.3%	11.3%
Pyrene	20.9	25.0	83.6%	22.0	25.0	88.0%	5.1%
Chrysene	2.6	3.0	86.7%	2.8	3.0	93.3%	5.9%
Benzo(k)fluoranthene	2.3	3.0	76.7%	2.5	3.0	83.3%	9.5%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	72.4%	80.0%
2-Fluorobiphenyl	68.0%	74.8%
d14-p-Terphenyl	87.2%	91.2%
d4-1,2-Dichlorobenzene	63.6%	71.2%
d5-Phenol	68.5%	76.3%
2-Fluorophenol	64.5%	72.3%
2,4,6-Tribromophenol	82.1%	87.2%
d4-2-Chlorophenol	68.3%	76.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	MNP	DBA	TOT OUT
MB-031705	66.0%	96.0%	0
LCS-031705	68.7%	105%	0
LCSD-031705	76.7%	104%	0
SY-PL2-156A	67.3%	65.7%	0
SY-PL2-11156A-1	67.3%	73.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-4999 to 05-5000

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-031705
METHOD BLANK

Lab Sample ID: MB-031705
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 14:44
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.10**	**0.13**
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	66.0%
d14-Dibenzo(a,h)anthracene	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 15:59
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.10**	**0.36 B**
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	67.3%
d14-Dibenzo(a,h)anthracene	65.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 16:24
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.10**	**0.27 B**
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	67.3%
d14-Dibenzo(a,h)anthracene	73.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: LCS-031705
LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted LCS/LCSD: 03/17/05
Date Analyzed LCS: 03/22/05 15:09
LCSD: 03/22/05 15:34
Instrument/Analyst LCS: NT1/Van
LCSD: NT1/Van

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.12	3.00	70.7%	2.45	3.00	81.7%	14.4%
Chrysene	2.25	3.00	75.0%	2.58	3.00	86.0%	13.7%
Benzo(k)fluoranthene	1.84	3.00	61.3%	2.35	3.00	78.3%	24.3%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	68.7%	76.7%
d14-Dibenzo(a,h)anthracene	105%	104%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	DCBP	TCMX	TOT OUT
MB-031705	123%	73.8%	0
LCS-031705	101%	80.2%	0
LCSD-031705	98.0%	80.8%	0
SY-PL2-156A	80.5%	72.8%	0
SY-PL2-11156A-1	84.0%	75.0%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-4999 to 05-5000

000036

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031705
METHOD BLANK

Lab Sample ID: MB-031705
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/17/05
Date Analyzed: 03/21/05 17:52
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	123%
Tetrachlorometaxylene	73.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/21/05 18:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.5%
Tetrachlorometaxylene	72.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/21/05 19:00
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.0%
Tetrachlorometaxylene	75.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-031705
LCS/LCSD

Lab Sample ID: LCS-031705
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/17/05

Date Analyzed LCS: 03/21/05 18:09
LCSD: 03/21/05 18:26
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.11	5.12	80.3%	4.16	5.12	81.2%	1.2%
Aroclor 1260	5.04	5.12	98.4%	4.61	5.12	90.0%	8.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	101%	98.0%
Tetrachlorometaxylene	80.2%	80.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

TOTAL & DISSOLVED METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-156A-F
SAMPLE

Lab Sample ID: HV41A
LIMS ID: 05-4994
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**98.8**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**4,820**	
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-11156A-F-1
SAMPLE

Lab Sample ID: HV41B
LIMS ID: 05-4995
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**99.8**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**4,890**	
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-151C-F
SAMPLE

Lab Sample ID: HV41C
LIMS ID: 05-4996
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	5	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
6010B	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**783**	
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**4**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	1	1	U
6010B	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**5**	
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-151B-F
SAMPLE

Lab Sample ID: HV41D
LIMS ID: 05-4997
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**4.4**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**849**	
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-151A-F
SAMPLE

Lab Sample ID: HV41E
LIMS ID: 05-4998
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**4.5**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	**7440-50-8**	**Copper**	1	**1**	
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**854**	
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	1	**3**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.5	0.5	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.5	0.5	U
6010B	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HV41MB
LIMS ID: 05-4994
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/15/05	6010B	03/21/05	7439-96-5	Manganese	1	1	U
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	0.5	0.5	U
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HV41LCS
LIMS ID: 05-4994
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2070	2000	104%	
Arsenic	200.8	26.9	25.0	108%	
Beryllium	6010B	532	500	106%	
Cadmium	6010B	559	500	112%	
Chromium	6010B	520	500	104%	
Copper	200.8	26.7	25.0	107%	
Lead	200.8	29	25	116%	
Manganese	6010B	515	500	103%	
Nickel	200.8	26.0	25.0	104%	
Selenium	6010B	2320	2000	116%	
Silver	200.8	26.1	25.0	104%	
Thallium	6010B	2140	2000	107%	
Thallium	200.8	28.9	25.0	116%	
Vanadium	6010B	538	500	108%	
Zinc	6010B	523	500	105%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**106**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**4,850**	
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**10**	
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**104**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**4,630**	
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**10**	
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-151C
SAMPLE

Lab Sample ID: HV41H
LIMS ID: 05-5001
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**6**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
3010A	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**764**	
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**3**	
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	1	1	U
3010A	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-151B
SAMPLE

Lab Sample ID: HV41I
LIMS ID: 05-5002
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	1	4	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**839**	
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: HV41J
LIMS ID: 05-5003
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**5.0**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**811**	
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	1	**3**	
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV41MB
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/15/05	6010B	03/21/05	7439-96-5	Manganese	1	1	U
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	0.5	0.5	U
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HV41LCS
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2110	2000	106%	
Arsenic	200.8	26.8	25.0	107%	
Beryllium	6010B	500	500	100%	
Cadmium	6010B	512	500	102%	
Chromium	6010B	495	500	99.0%	
Copper	200.8	26.4	25.0	106%	
Lead	200.8	28.4	25.0	114%	
Manganese	6010B	492	500	98.4%	
Nickel	200.8	26.0	25.0	104%	
Selenium	6010B	2020	2000	101%	
Silver	200.8	26.5	25.0	106%	
Thallium	6010B	1960	2000	98.0%	
Thallium	200.8	28.5	25.0	114%	
Vanadium	6010B	507	500	101%	
Zinc	6010B	489	500	97.8%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ar
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Client ID: SY-PL2-156A-F
ARI ID: 05-4994 HV41A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#2	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: DAR
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Client ID: SY-PL2-151A-F
ARI ID: 05-4998 HV41E

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#2	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Client ID: SY-PL2-151A
ARI ID: 05-5003 HV41J

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/11/05	SM 2580	mv	0.1	49.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.010	0.203
N-Nitrate	03/12/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/12/05 031205#2	EPA 353.2	mg-N/L	0.010	0.036
Nitrate + Nitrite (NO3+NO2)	03/12/05 031205#2	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	4.0	40.3
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	2.27

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/11/05	mg/L	< 0.010 U
N-Ammonia	03/22/05	mg-N/L	< 0.010 U
N-Nitrite	03/12/05	mg-N/L	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/12/05	mg-N/L	< 0.010 U
Sulfate	03/19/05	mg/L	< 2.0 U
Sulfide	03/17/05	mg/L	< 0.05 U
Total Organic Carbon	03/14/05	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: aap
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Sulfide	03/17/05	mg/L	6.79	7.95	85.4%

STANDARD REFERENCE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/11/05	mg/L	0.571	0.560	102.0%
N-Ammonia SPEX 28-24AS	03/22/05	mg-N/L	0.526	0.500	105.2%
N-Nitrite ERA #23034	03/12/05	mg-N/L	0.501	0.500	100.2%
Nitrate + Nitrite (NO3+NO2) ERA #20034	03/12/05	mg-N/L	0.527	0.500	105.4%
Sulfate ERA #08113	03/19/05	mg/L	26.0	25.0	104.0%
Total Organic Carbon SPEX #28-53AS	03/14/05	mg/L	19.6	20.0	98.0%

REPLICATE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HV41E Client ID: SY-PL2-151A-F					
Hexavalent Chrome	03/11/05	mg/L	< 0.011	< 0.011	NA
ARI ID: HV41J Client ID: SY-PL2-151A					
Redox Potential	03/11/05	mv	49.0	47.0	4.2%
N-Ammonia	03/22/05	mg-N/L	0.203	0.204	0.5%
N-Nitrite	03/12/05	mg-N/L	0.036	0.036	0.0%
Nitrate + Nitrite (NO3+NO2)	03/12/05	mg-N/L	< 0.010	< 0.010	NA

MS/MSD RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HV41E Client ID: SY-PL2-151A-F						
Hexavalent Chrome	03/11/05	mg/L	< 0.011	< 0.011 U	5.00	NA
ARI ID: HV41J Client ID: SY-PL2-151A						
N-Ammonia	03/22/05	mg-N/L	0.203	0.699	0.500	99.2%
N-Nitrite	03/12/05	mg-N/L	0.036	0.319	0.500	56.6%
Nitrate + Nitrite (NO3+NO2)	03/12/05	mg-N/L	< 0.010	0.206	0.500	41.2%

LOW LEVEL MERCURY

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0393

ARI Client: The Boeing Company
ARI Project ID: HV41

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-PL2-156A-F	3/11/05	05BR0393 - 1	3/14/2005
SY-PL2-11156A-F-1	3/11/05	05BR0393 - 2	3/14/2005
SY-PL2-151C-F	3/11/05	05BR0393 - 3	3/14/2005
SY-PL2-151B-F	3/11/05	05BR0393 - 4	3/14/2005
SY-PL2-151A-F	3/11/05	05BR0393 - 5	3/14/2005
SY-PL2-156A	3/11/05	05BR0393 - 6	3/14/2005
SY-PL2-11156A-1	3/11/05	05BR0393 - 7	3/14/2005
SY-PL2-151C	3/11/05	05BR0393 - 8	3/14/2005
SY-PL2-151B	3/11/05	05BR0393 - 9	3/14/2005
SY-PL2-151A	3/11/05	05BR0393 - 10	3/14/2005
Filter Blank 1	3/14/05	05BR0393 - 11	3/14/2005
Filter blank 2	3/14/05	05BR0393 - 12	3/14/2005

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for Brooks Rand Report # 05BR0393

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0393

ARI Client: The Boeing Company
ARI Project ID: HV41

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-156A	05BR0393 - 6	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-11156A-1	05BR0393 - 7	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151C	05BR0393 - 8	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151B	05BR0393 - 9	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151A	05BR0393 - 10	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report # 05BR0393

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0393

ARI Client: The Boeing Company
ARI Project ID: HV41

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-156A-F	05BR0393 - 1	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-11156A-F-1	05BR0393 - 2	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151C-F	05BR0393 - 3	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151B-F	05BR0393 - 4	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151A-F	05BR0393 - 5	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
Filter Blank 1	05BR0393 - 11	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
Filter blank 2	05BR0393 - 12	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U

BROOKS RAND LLC

DATA QUALIFIERS and their DEFINITIONS
(Effective 12/09/04)

B - Detected by the instrument, above MDL but less than the PQL (ML). Measured result is reported and considered an estimate.

E - An estimated value due to the presence of interferences. A full explanation will be presented in the case narrative.

H - Holding time and/or preservation requirements not met. Results are estimated.

J – Estimated value.

M -Duplicate precision (RPD) was not within acceptance criteria.

N - Spike recovery was not within acceptance criteria.

R - Rejected, unusable value. A full explanation will be presented in the QA Report.

U – Result below the method detection limit (MDL) and therefore analyte was not detected. Results reported at the MDL.

These qualifiers are based on those previously utilized by Brooks Rand, Ltd., those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18 and the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses; USEPA; July 1988. These supercede all previous qualifiers ever employed by BRL.

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0150
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0392 & 05BR0393
Project:	ARI004 & NJC002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 17, 2005
Calibration Date:	Match 14, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3/8.05

Tressa K. Pearson-Franks
Quality Assurance Associate

000070

Analytical Resources, Incorporated
Analytical Chemists and Consultants

April 4, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HV52

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted sixteen water samples in good condition on March 14, 2005. The samples were received at cooler temperatures of 0.0°C, 3.0°C and 7.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, total and dissolved metals and various conventional parameters. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV52

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HVSQ	Turn-around Requested: STANDARD	Page: 1 of 2	
ARI Client Company: BOEING / EPI	Phone: 425-395-0010	Date: 3/14/05	Ice Present? Y
Client Contact: Doug Kunkel / Josh Berthold		No. of Coolers: 3	Cooler Temps: 7° 8° 0°
Client Project Name: PZDG - SOUTH YARD AREA			
Client Project #: 17505.0	Samplers: JB / TK		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	VOCs	SVOCs	PCBs	Metals Dissolved	Metals Total	Chr. VI	Radon Nitrate Sulfate	Ammon., TOC	Sulfide	LL Hg Dissolved	LL Hg Total
SY-PL2-106A	3/14/05	0820	WATER	5	X				X						X
SY-PL2-106A-F	3/14/05	0820	WATER	2				X						X	
SY-PL2-106B	3/14/05	1015	WATER	5	X				X						X
SY-PL2-106B-F	3/14/05	1015	WATER	2				X						X	
SY-PL2-106A-/15	3/14/05	0830	WATER	5	X				X						X
SY-PL2-106A-F-/15	3/14/05	0830	WATER	2				X						X	
SY-PL2-106A-MSD	3/14/05	0840	WATER	5	X				X						X
SY-PL2-106A-F-MSD	3/14/05	0840	WATER	2				X						X	
SY-PL2-106C	3/14/05	1115	WATER	5	X				X						X
SY-PL2-106C-F	3/14/05	1115	WATER	2				X						X	

Notes/Comments

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by (Signature)	Received by: (Signature)
000002	Printed Name: Josh Berthold	Printed Name: BRYAN R. BUSSOY	Printed Name:	Printed Name:
	Company: EPI	Company: ARI	Company:	Company:
	Date & Time: 3/14/05 1750	Date & Time: 3/14/05 1750	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropnate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HV52	Turn-around Requested: STANDARD
ARI Client Company: EPI / BOEING	Phone: 425-395-0010
Client Contact: Doug KUNKEL / Josh Berenthal	
Client Project Name: PZDG - South YARD AREA	
Client Project #: 17505.0	Samplers: JB / TK

Page: 2 of 2

Date: 3/14/05 | Ice Present? Y

No. of Coolers: 3 | Cooler Temps: 7.3°C

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	Metals (Dissolved)	Metals (Total)	Chr. VI	Nitrate Nitrite Redox Sulfide	Ammonia TOC	Sulfide	Hg 245.1	Hg Total
SY-PLZ-155A	3/14/05	1230	WATER	12	X	X	X		X		X	X	X		X
SY-PLZ-155A-F	3/14/05	1230	WATER	3				X		X				X	
SY-PLZ-155B	3/14/05	1420	WATER	8	X				X		X	X	X		X
SY-PLZ-155B-F	3/14/05	1420	WATER	2				X						X	
SY-PLZ-155C	3/14/05	1520	WATER	5	X				X						X
SY-PLZ-155C-F	3/14/05	1520	WATER	2				X						X	
SY-PLZ-955A	3/14/05	0700	WATER	10	X		X		X		X	X	X		X
SY-PLZ-955A-F	3/14/05	0700	WATER	2				X						X	
SY-PLZ-601A	3/14/05	1630	WATER	10	X		X		X		X	X	X		X
SY-PLZ-601A-F	3/14/05	1630	WATER	2				X						X	

Comments/Special Instructions

000003

Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	(Signature)	(Signature)	(Signature)
Printed Name: Josh Berenthal	Printed Name: BRYAN R. BUSSEY	Printed Name:	Printed Name:
Company: EPI	Company: ARI	Company	Company
Date & Time: 3/14/05 1750	Date & Time: 3/14/05 1750	Date & Time:	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV52

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV52
April 4, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0 with the exception of samples **SY-PL2-106C** and **SY-PL2-155C** which had pH 6-8. The samples were analyzed on 3/23/05 within the method recommended holding time.

There was no trip blank received with this set of samples.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-106A.** All RPDs for the analytes of interest were within compliance. Several MSD percent recoveries were elevated in relation to the MS percent recoveries. As MS/MSD percent recoveries have advisory limits, and the recoveries in the LCS/LCSD were in control, no corrective actions were taken.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Semivolatile Organics by Method 8270C:

The sample was extracted on 3/18/05 and analyzed on 3/23/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The sample was extracted on 3/18/05 and analyzed on 3/23/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV52
April 4, 2005

PCB by Method 8082

The samples were extracted on 3/18/05 and were analyzed on 3/23/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved and Total Metals by Methods 6010 and 200.8

The samples were prepared on 3/18/05 and 3/21/05 and were analyzed between 3/21/05 and 3/22/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of element contamination.

Samples: Samples **SY-PL2-106C, SY-PL2-106C-F, SY-PL2-155C** and **SY-PL2-155C-F** were received unpreserved. The samples were pH adjusted prior to sample preparation.

The analyst noted that during the dissolved ICP analysis of sample **SY-PL2-106C-F,** the sample had a noisy Sc internal standard. The sample was re-run with ScA internals standard noisy. As the element results replicated each other and the total ICP analysis, no further corrective action was taken.

No other anomalies were encountered for these samples.

Matrix Spike: A matrix spike and a matrix duplicate were performed in association with samples **SY-PL2-106A** and **SY-PL2-106A-F.** All percent recoveries and RPDs were in control.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Conventional Parameters
The Hexavalent chrome samples were analyzed on 3/15/05 within the method recommended 24 hour holding time.
The Redox Potential samples were analyzed on 3/15/05. Sample **SY-PL2-955A** was run slightly outside the method recommended 24 hour holding time. All other samples were run within the 24 hour holding time.
Ammonia samples were analyzed on 3/22/05 within the method recommended 28 day holding time.
Nitrate, nitrite and NO2+NO3 samples were analyzed on 3/16/05 within the method recommended 48 hour holding time.
Sulfate samples were analyzed on 3/19/05 within the method recommended 28 day holding time.
Sulfide samples were analyzed on 3/17/05 within the method recommended 7 day holding time.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV52
April 4, 2005

Total Organic Carbon samples were analyzed on 3/16/05 within the method recommended 28 day holding time.

Method Blank(s): All method blanks were free of element contamination.

Samples: Nitrate, Nitrite, NO2+NO3 sample **SY-PL2-155A** was diluted based on color. Sulfate samples **SY-PL2-155A** and **SY-PL2-955A** were diluted due to turbidity of samples.

No anomalies were encountered for these samples.

MS/MSD: All MS recoveries were in control.

LCS/SRM/Replicate: All recoveries were in control.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV52

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HV52

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
032305MB	Method Blank	95.2%	91.6%	91.3%	94.7%	0
HV52LCS	Lab Control	89.2%	93.0%	89.8%	95.0%	0
HV52LCD	LCDuplicate	100%	96.4%	87.4%	89.0%	0
HV52A	SY-PL2-106A	92.8%	98.0%	96.2%	103%	0
HV52AMS	SY-PL2-106A	95.1%	97.3%	92.2%	91.9%	0
HV52AMSD	SY-PL2-106A	108%	103%	95.0%	93.0%	0
HV52B	SY-PL2-106B	114%	103%	93.8%	100%	0
HV52C	SY-PL2-106C	118%	102%	94.2%	98.5%	0
HV52D	SY-PL2-155A	112%	106%	98.2%	107%	0
HV52E	SY-PL2-155B	112%	96.8%	88.8%	98.2%	0
HV52F	SY-PL2-155C	118%	101%	93.8%	101%	0
HV52G	SY-PL2-955A	114%	104%	98.0%	103%	0
HV52H	SY-PL2-601A	108%	99.2%	96.8%	92.8%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

FORM-II VOA-1

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032305
METHOD BLANK

Lab Sample ID: MB-032305
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 11:55

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.2%
d8-Toluene	91.6%
Bromofluorobenzene	91.3%
d4-1,2-Dichlorobenzene	94.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-106A
SAMPLE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 13:07

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**14**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.0**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**0.9**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**4.2**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.3**
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**3.0**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.3**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.8%
d8-Toluene	98.0%
Bromofluorobenzene	96.2%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-106A MATRIX SPIKE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 14:04

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.1%
d8-Toluene	97.3%
Bromofluorobenzene	92.2%
d4-1,2-Dichlorobenzene	91.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-106A
MATRIX SPIKE DUPLICATE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 14:33

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	103%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	93.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-106B
SAMPLE

Lab Sample ID: HV52B
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 13:34

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.5**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.4**
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluorde	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	103%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-106C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV52C
LIMS ID: 05-5091
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 15:09

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**8.9**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	102%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	98.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 15:43

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**4.7**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**8.1**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.1**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.8**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.3**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.8**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	106%
Bromofluorobenzene	98.2%
d4-1,2-Dichlorobenzene	107%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-155B
SAMPLE

Lab Sample ID: HV52E
LIMS ID: 05-5093
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 16:13

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**5.2**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	96.8%
Bromofluorobenzene	88.8%
d4-1,2-Dichlorobenzene	98.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-155C
SAMPLE

Lab Sample ID: HV52F
LIMS ID: 05-5094
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 16:44

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**7.1**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	101%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	101%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-955A
SAMPLE

Lab Sample ID: HV52G
LIMS ID: 05-5095
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 17:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**5.0**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**9.4**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.0**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.0**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.2**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.8**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	104%
Bromofluorobenzene	98.0%
d4-1,2-Dichlorobenzene	103%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-601A
SAMPLE

Lab Sample ID: HV52H
LIMS ID: 05-5096
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 17:41

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**1.7**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.5**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.3**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**6.3**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**5.0**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	99.2%
Bromofluorobenzene	96.8%
d4-1,2-Dichlorobenzene	92.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-106A**
MS/MSD

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst MS: FINN1/PAB
MSD: FINN1/PAB
Date Analyzed MS: 03/23/05 14:04
MSD: 03/23/05 14:33

Sample Amount MS: 20.0 mL
MSD: 20.0 mL
Purge Volume MS: 20.0 mL
MSD: 20.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 0.2	3.6	4.0	90.0%	4.1	4.0	102%	13.0%
Bromomethane	< 0.2	3.8	4.0	95.0%	4.5	4.0	112%	16.9%
Vinyl Chloride	13.6	18.4	4.0	120%	19.7	4.0	152%	6.8%
Chloroethane	< 0.2	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Methylene Chloride	< 0.3	5.0	4.0	125%	5.4	4.0	135%	7.7%
Acetone	3.0	25.3	20.0	112%	28.9	20.0	130%	13.3%
Carbon Disulfide	< 0.2	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
1,1-Dichloroethene	< 0.2	4.2	4.0	105%	5.0	4.0	125%	17.4%
1,1-Dichloroethane	0.9	4.6	4.0	92.5%	4.8	4.0	97.5%	4.3%
trans-1,2-Dichloroethene	1.5	5.4	4.0	97.5%	5.2	4.0	92.5%	3.8%
cis-1,2-Dichloroethene	4.2	8.3	4.0	102%	8.2	4.0	100%	1.2%
Chloroform	< 0.2	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
1,2-Dichloroethane	0.3	4.5	4.0	105%	4.7	4.0	110%	4.3%
2-Butanone	< 1.0	17.4	20.0	87.0%	19.7	20.0	98.5%	12.4%
1,1,1-Trichloroethane	< 0.2	3.7	4.0	92.5%	4.1	4.0	102%	10.3%
Carbon Tetrachloride	< 0.2	3.4	4.0	85.0%	3.7	4.0	92.5%	8.5%
Vinyl Acetate	< 0.2	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Bromodichloromethane	< 0.2	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
1,2-Dichloropropane	< 0.2	4.0	4.0	100%	4.3	4.0	108%	7.2%
cis-1,3-Dichloropropene	< 0.2	3.4	4.0	85.0%	3.8	4.0	95.0%	11.1%
Trichloroethene	3.0	6.8	4.0	95.0%	7.5	4.0	112%	9.8%
Dibromochloromethane	< 0.2	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
1,1,2-Trichloroethane	< 0.2	4.3	4.0	108%	4.7	4.0	118%	8.9%
Benzene	0.3	4.0	4.0	92.5%	4.5	4.0	105%	11.8%
trans-1,3-Dichloropropene	< 0.2	3.4	4.0	85.0%	4.0	4.0	100%	16.2%
2-Chloroethylvinylether	< 0.5	< 0.5	4.0	NA	< 0.5	4.0	NA	NA
Bromoform	< 0.2	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
4-Methyl-2-Pentanone (MIBK)	< 1.0	20.1	20.0	100%	22.5	20.0	112%	11.3%
2-Hexanone	< 1.0	19.4	20.0	97.0%	20.6	20.0	103%	6.0%
Tetrachloroethene	< 0.2	4.1	4.0	102%	3.8	4.0	95.0%	7.6%
1,1,2,2-Tetrachloroethane	< 0.2	3.3	4.0	82.5%	3.8	4.0	95.0%	14.1%
Toluene	< 0.2	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
Chlorobenzene	< 0.2	3.8	4.0	95.0%	4.0	4.0	100%	5.1%
Ethylbenzene	< 0.2	4.1	4.0	102%	4.2	4.0	105%	2.4%
Styrene	< 0.2	4.3	4.0	108%	4.4	4.0	110%	2.3%
Trichlorofluoromethane	< 0.2	4.4	4.0	110%	5.2	4.0	130%	16.7%
1,1,2-Trichloro-1,2,2-trifl	< 0.2	4.2	4.0	105%	4.9	4.0	122%	15.4%
m,p-Xylene	< 0.4	8.2	8.0	102%	8.3	8.0	104%	1.2%
o-Xylene	< 0.2	3.9	4.0	97.5%	4.0	4.0	100%	2.5%

Results reported in µg/L
NA-No recovery due to high concentration of analyte in original sample, or calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-032305
LCS/LCSD

Lab Sample ID: LCS-032305
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN1/PAB
LCSD: FINN1/PAB
Date Analyzed LCS: 03/23/05 10:47
LCSD: 03/23/05 11:33

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
Bromomethane	3.6	4.0	90.0%	4.2	4.0	105%	15.4%
Vinyl Chloride	3.6	4.0	90.0%	3.9	4.0	97.5%	8.0%
Chloroethane	3.8	4.0	95.0%	4.2	4.0	105%	10.0%
Methylene Chloride	4.4	4.0	110%	5.0	4.0	125%	12.8%
Acetone	19.6	20.0	98.0%	24.4	20.0	122%	21.8%
Carbon Disulfide	3.6	4.0	90.0%	3.3	4.0	82.5%	8.7%
1,1-Dichloroethene	3.7	4.0	92.5%	4.2	4.0	105%	12.7%
1,1-Dichloroethane	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
trans-1,2-Dichloroethene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
cis-1,2-Dichloroethene	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
Chloroform	3.8	4.0	95.0%	4.0	4.0	100%	5.1%
1,2-Dichloroethane	3.8	4.0	95.0%	4.2	4.0	105%	10.0%
2-Butanone	17.6	20.0	88.0%	18.5	20.0	92.5%	5.0%
1,1,1-Trichloroethane	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Carbon Tetrachloride	3.3	4.0	82.5%	3.6	4.0	90.0%	8.7%
Vinyl Acetate	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Bromodichloromethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
1,2-Dichloropropane	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
cis-1,3-Dichloropropene	3.2	4.0	80.0%	3.5	4.0	87.5%	9.0%
Trichloroethene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Dibromochloromethane	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
1,1,2-Trichloroethane	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
Benzene	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
trans-1,3-Dichloropropene	3.1	4.0	77.5%	3.4	4.0	85.0%	9.2%
2-Chloroethylvinylether	3.3	4.0	82.5%	3.7	4.0	92.5%	11.4%
Bromoform	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	17.6	20.0	88.0%	20.4	20.0	102%	14.7%
2-Hexanone	18.3	20.0	91.5%	19.2	20.0	96.0%	4.8%
Tetrachloroethene	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
1,1,2,2-Tetrachloroethane	3.3	4.0	82.5%	3.2	4.0	80.0%	3.1%
Toluene	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Chlorobenzene	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Ethylbenzene	4.0	4.0	100%	4.0	4.0	100%	0.0%
Styrene	4.0	4.0	100%	4.1	4.0	102%	2.5%
Trichlorofluoromethane	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
1,1,2-Trichloro-1,2,2-trifl	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
m,p-Xylene	8.0	8.0	100%	8.0	8.0	100%	0.0%
o-Xylene	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032305**
 LCS/LCSD

Lab Sample ID: LCS-032305
LIMS ID: 05-5089
Matrix: Water
Date Analyzed: 03/23/05 10:47
LCSD: 03/23/05 11:33

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	89.2%	100%
d8-Toluene	93.0%	96.4%
Bromofluorobenzene	89.8%	87.4%
d4-1,2-Dichlorobenzene	95.0%	89.0%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031805	77.2%	73.6%	89.6%	64.4%	77.3%	73.9%	81.1%	79.7%	0
LCS-031805	76.8%	71.2%	85.2%	62.4%	74.4%	71.7%	80.3%	73.1%	0
LCSD-031805	80.8%	74.8%	88.0%	64.8%	79.5%	76.0%	86.1%	77.9%	0
SY-PL2-155A	75.6%	72.8%	84.4%	69.2%	75.2%	73.3%	83.7%	79.7%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-5092 to 05-5092

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized: MW
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 15:00
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5092
Matrix: Water
Date Analyzed: 03/23/05 15:00

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.2%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	89.6%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	77.3%	2-Fluorophenol	73.9%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	79.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 18:52
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Date Analyzed: 03/23/05 18:52

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.6%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	75.2%	2-Fluorophenol	73.3%
2,4,6-Tribromophenol	83.7%	d4-2-Chlorophenol	79.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted LCS/LCSD: 03/18/05

Date Analyzed LCS: 03/23/05 15:33
LCSD: 03/23/05 16:06
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	25.1	37.5	66.9%	29.2	37.5	77.9%	15.1%
2-Chlorophenol	25.7	37.5	68.5%	29.7	37.5	79.2%	14.4%
1,4-Dichlorobenzene	12.9	25.0	51.6%	13.6	25.0	54.4%	5.3%
N-Nitroso-Di-N-Propylamine	17.4	25.0	69.6%	20.7	25.0	82.8%	17.3%
1,2,4-Trichlorobenzene	13.8	25.0	55.2%	14.4	25.0	57.6%	4.3%
4-Chloro-3-methylphenol	28.2	37.5	75.2%	33.1	37.5	88.3%	16.0%
Acenaphthene	17.1	25.0	68.4%	19.6	25.0	78.4%	13.6%
4-Nitrophenol	32.9	37.5	87.7%	38.8	37.5	103%	16.5%
2,4-Dinitrotoluene	17.9	25.0	71.6%	21.4	25.0	85.6%	17.8%
Pentachlorophenol	27.5	37.5	73.3%	30.9	37.5	82.4%	11.6%
Phenanthrene	2.4	3.0	80.0%	2.8	3.0	93.3%	12.3%
Pyrene	19.1	25.0	76.4%	21.8	25.0	87.2%	13.2%
Chrysene	2.5	3.0	83.3%	2.9	3.0	96.7%	12.5%
Benzo(k)fluoranthene	2.3	3.0	76.7%	2.6	3.0	86.7%	10.3%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	76.8%	80.8%
2-Fluorobiphenyl	71.2%	74.8%
d14-p-Terphenyl	85.2%	88.0%
d4-1,2-Dichlorobenzene	62.4%	64.8%
d5-Phenol	74.4%	79.5%
2-Fluorophenol	71.7%	76.0%
2,4,6-Tribromophenol	80.3%	86.1%
d4-2-Chlorophenol	73.1%	77.9%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Client ID	MNP	DBA	TOT OUT
MB-031805	76.0%	99.3%	0
LCS-031805	89.0%	105%	0
LCSD-031805	81.3%	93.0%	0
SY-PL2-155A	89.0%	81.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-5092 to 05-5092

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 11:48
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.0%
d14-Dibenzo(a,h)anthracene	99.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 13:04
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in $\mu g/L$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	89.0%
d14-Dibenzo(a,h)anthracene	81.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted LCS/LCSD: 03/18/05
Date Analyzed LCS: 03/23/05 12:14
LCSD: 03/23/05 12:39
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.67	3.00	89.0%	2.89	3.00	96.3%	7.9%
Chrysene	2.75	3.00	91.7%	3.02	3.00	101%	9.4%
Benzo(k)fluoranthene	2.51	3.00	83.7%	2.97	3.00	99.0%	16.8%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	89.0%	81.3%
d14-Dibenzo(a,h)anthracene	105%	93.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Client ID	DCBP	TCMX	TOT OUT
MB-031805	123%	88.2%	0
LCS-031805	97.8%	86.5%	0
LCSD-031805	106%	80.8%	0
SY-PL2-155A	79.2%	84.5%	0
SY-PL2-955A	66.5%	80.5%	0
SY-PL2-601A	95.0%	82.0%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-5092 to 05-5096

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 00:41
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	123%
Tetrachlorometaxylene	88.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 01:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	79.2%
Tetrachlorometaxylene	84.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-955A
SAMPLE

Lab Sample ID: HV52G
LIMS ID: 05-5095
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 01:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.5%
Tetrachlorometaxylene	80.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-601A
SAMPLE

Lab Sample ID: HV52H
LIMS ID: 05-5096
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in μg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.0%
Tetrachlorometaxylene	82.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/18/05

Date Analyzed LCS: 03/23/05 00:58
LCSD: 03/23/05 01:15
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.45	5.12	86.9%	4.49	5.12	87.7%	0.9%
Aroclor 1260	5.28	5.12	103%	5.13	5.12	100%	2.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	97.8%	106%
Tetrachlorometaxylene	86.5%	80.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

TOTAL & DISSOLVED METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106A
SAMPLE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**38.4**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.7**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**1,310**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**8**	
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106A
DUPLICATE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	38.4	39.7	3.3%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	5 U	5 U	0.0%	+/- 5	L
Copper	200.8	1.7	1.8	5.7%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	1,310	1,440	9.5%	+/- 20%	
Nickel	200.8	1.8	1.9	5.4%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	8	9	11.8%	+/- 3	L
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106A
MATRIX SPIKE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	50.0 U	1,570	2,000	78.5%	
Arsenic	200.8	38.4	65.0	25.0	106%	
Beryllium	6010B	1.00 U	435	500	87.0%	
Cadmium	6010B	2.00 U	445	500	89.0%	
Chromium	6010B	5.00 U	426	500	85.2%	
Copper	200.8	1.66	25.1	25.0	93.8%	
Lead	200.8	1.00 U	24.2	25.0	96.8%	
Manganese	6010B	1,310	1,720	500	82.0%	
Nickel	200.8	1.82	25.7	25.0	95.5%	
Selenium	6010B	50.0 U	1,780	2,000	89.0%	
Silver	200.8	0.200 U	23.7	25.0	94.8%	
Thallium	6010B	50.0 U	1,630	2,000	81.5%	
Thallium	200.8	0.200 U	24.1	25.0	96.4%	
Vanadium	6010B	7.96	458	500	90.0%	
Zinc	6010B	6.00 U	427	500	85.4%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: SY-PL2-106B
SAMPLE

Lab Sample ID: HV52B
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.5**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.5**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**812**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106C
SAMPLE

Lab Sample ID: HV52C
LIMS ID: 05-5091
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**4**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	2	**255**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**7**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**93.4**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**3,640**	
200.8	03/21/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**19**	
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-155B
SAMPLE

Lab Sample ID: HV52E
LIMS ID: 05-5093
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**3.6**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**516**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-155C
SAMPLE

Lab Sample ID: HV52F
LIMS ID: 05-5094
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**8**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	2	**396**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**7**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-955A
SAMPLE

Lab Sample ID: HV52G
LIMS ID: 05-5095
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**95.1**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**3,090**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**15**	
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-601A
SAMPLE

Lab Sample ID: HV52H
LIMS ID: 05-5096
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**11.8**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.6**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**2,130**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.6**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV52MB
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	7439-96-5	Manganese	1	1	U
200.8	03/21/05	200.8	03/22/05	7440-02-0	Nickel	0.5	0.5	U
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HV52LCS
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized
Reported: 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2030	2000	102%	
Arsenic	200.8	25.8	25.0	103%	
Beryllium	6010B	476	500	95.2%	
Cadmium	6010B	486	500	97.2%	
Chromium	6010B	471	500	94.2%	
Copper	200.8	26.4	25.0	106%	
Lead	200.8	24.3	25.0	97.2%	
Manganese	6010B	479	500	95.8%	
Nickel	200.8	26.1	25.0	104%	
Selenium	6010B	1870	2000	93.5%	
Silver	200.8	25.5	25.0	102%	
Thallium	6010B	1810	2000	90.5%	
Thallium	200.8	24.2	25.0	96.8%	
Vanadium	6010B	479	500	95.8%	
Zinc	6010B	470	500	94.0%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-106A-F
SAMPLE

Lab Sample ID: HV521
LIMS ID: 05-5097
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**35.1**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.2**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**1,440**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**9**	
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-106A-F
DUPLICATE

Lab Sample ID: HV52I
LIMS ID: 05-5097
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	35.1	36.6	4.2%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	5 U	5 U	0.0%	+/- 5	L
Copper	200.8	1.2	1.2	0.0%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	1,440	1,450	0.7%	+/- 20%	
Nickel	200.8	1.8	1.9	5.4%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	9	9	0.0%	+/- 3	L
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in $\mu g/L$

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-106A-F
MATRIX SPIKE

Lab Sample ID: HV52I
LIMS ID: 05-5097
Matrix: Water
Data Release Authorized
Reported. 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample		Spike	Spike Added	% Recovery	Q
Antimony	6010B	50	U	2,180	2,000	109%	
Arsenic	200.8	35.1		62.8	25.0	111%	
Beryllium	6010B	1	U	545	500	109%	
Cadmium	6010B	2	U	557	500	111%	
Chromium	6010B	5	U	525	500	105%	
Copper	200.8	1.2		24.9	25.0	94.8%	
Lead	200.8	1	U	25	25	100%	
Manganese	6010B	1,440		1,980	500	108%	
Nickel	200.8	1.8		26.1	25.0	97.2%	
Selenium	6010B	50	U	2,360	2,000	118%	
Silver	200.8	0.2	U	24.9	25.0	99.6%	
Thallium	6010B	50	U	2,070	2,000	104%	
Thallium	200.8	0.2	U	24.5	25.0	98.0%	
Vanadium	6010B	9		562	500	111%	
Zinc	6010B	6	U	543	500	109%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-106B-F
SAMPLE

Lab Sample ID: HV52J
LIMS ID: 05-5098
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.6**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**1,010**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	**7440-66-6**	**Zinc**	6	**34**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-106C-F
SAMPLE

Lab Sample ID: HV52K
LIMS ID: 05-5099
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**4**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	2	**255**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**7**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-155A-F
SAMPLE

Lab Sample ID: HV52L
LIMS ID: 05-5100
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**94.0**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.8**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**3,800**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**18**	
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-155B-F
SAMPLE

Lab Sample ID: HV52M
LIMS ID: 05-5101
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**3.3**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**530**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.5**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-155C-F
SAMPLE

Lab Sample ID: HV52N
LIMS ID: 05-5102
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**9**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	2	**427**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**6**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-955A-F
SAMPLE

Lab Sample ID: HV52O
LIMS ID: 05-5103
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**97.9**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**3,810**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**18**	
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-601A-F
SAMPLE

Lab Sample ID: HV52P
LIMS ID: 05-5104
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**12.0**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	**7439-96-5**	**Manganese**	1	**2,400**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.6**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV52MB
LIMS ID: 05-5099
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	7439-96-5	Manganese	1	1	U
200.8	03/21/05	200.8	03/22/05	7440-02-0	Nickel	0.5	0.5	U
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HV52LCS
LIMS ID: 05-5099
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2120	2000	106%	
Arsenic	200.8	26.6	25.0	106%	
Beryllium	6010B	543	500	109%	
Cadmium	6010B	566	500	113%	
Chromium	6010B	531	500	106%	
Copper	200.8	27.2	25.0	109%	
Lead	200.8	25	25	100%	
Manganese	6010B	529	500	106%	
Nickel	200.8	26.5	25.0	106%	
Selenium	6010B	2330	2000	116%	
Silver	200.8	26.2	25.0	105%	
Thallium	6010B	2150	2000	108%	
Thallium	200.8	24.9	25.0	99.6%	
Vanadium	6010B	545	500	109%	
Zinc	6010B	537	500	107%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ap
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-155A
ARI ID: 05-5092 HV52D

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	34.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	8.61
N-Nitrate	03/16/05	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.050	0.052
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.050	0.056
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	36.2
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	14.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-155B
ARI ID: 05-5093 HV52E

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	37.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	8.97
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	7.2
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	13.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ay
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-955A
ARI ID: 05-5095 HV52G

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	40.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	8.63
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.010	0.036
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.010	0.020
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	10.0	24.9
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	0.08
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	15.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-601A
ARI ID: 05-5096 HV52H

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	30.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.020	1.23
N-Nitrate	03/16/05	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.050	< 0.050 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	4.0	50.3
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	3.22

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-155A-F
ARI ID: 05-5100 HV52L

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/15/05 031505#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ar
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/15/05	mg/L	< 0.010 U
N-Ammonia	03/22/05	mg-N/L	< 0.010 U
N-Nitrite	03/16/05	mg-N/L	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	< 0.010 U
Sulfate	03/19/05	mg/L	< 2.0 U
Sulfide	03/17/05	mg/L	< 0.05 U
Total Organic Carbon	03/16/05	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Sulfide	03/17/05	mg/L	6.79	7.95	85.4%

REPLICATE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: gab
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HV52D Client ID: SY-PL2-155A					
Redox Potential	03/15/05	mv	34.0	32.0	6.1%
N-Nitrite	03/16/05	mg-N/L	0.052	0.054	3.8%
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	0.056	0.059	5.2%
Total Organic Carbon	03/16/05	mg/L	14.2	14.7	3.5%
ARI ID: HV52H Client ID: SY-PL2-601A					
Sulfide	03/17/05	mg/L	< 0.05	< 0.05	NA
ARI ID: HV52L Client ID: SY-PL2-155A-F					
Hexavalent Chrome	03/15/05	mg/L	< 0.011	< 0.011	NA

MS/MSD RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: gap
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HV52D Client ID: SY-PL2-155A						
N-Nitrite	03/16/05	mg-N/L	0.052	2.70	2.50	105.9%
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	0.056	2.71	2.50	106.2%
Total Organic Carbon	03/16/05	mg/L	14.2	34.1	20.0	99.5%
ARI ID: HV52H Client ID: SY-PL2-601A						
Sulfide	03/17/05	mg/L	< 0.05	5.96	7.95	75.0%
ARI ID: HV52L Client ID: SY-PL2-155A-F						
Hexavalent Chrome	03/15/05	mg/L	< 0.011	< 0.011 U	0.620	NA

STANDARD REFERENCE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/15/05	mg/L	0.570	0.560	101.8%
N-Ammonia SPEX 28-24AS	03/22/05	mg-N/L	0.526	0.500	105.2%
N-Nitrite ERA #23034	03/16/05	mg-N/L	0.500	0.500	100.0%
Nitrate + Nitrite (NO3+NO2) ERA #20034	03/16/05	mg-N/L	0.516	0.500	103.2%
Sulfate ERA #08113	03/19/05	mg/L	26.0	25.0	104.0%
Total Organic Carbon SPEX #28-53AS	03/16/05	mg/L	19.2	20.0	96.0%

LOW LEVEL MERCURY

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0403

ARI Client: The Boeing Company
ARI Project ID: HV52

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-PL2-106A	3/14/2005	05BR0403 - 1	3/15/2005
SY-PL2-106B	3/14/2005	05BR0403 - 2	3/15/2005
SY-PL2-106C	3/14/2005	05BR0403 - 3	3/15/2005
SY-PL2-155A	3/14/2005	05BR0403 - 4	3/15/2005
SY-PL2-155B	3/14/2005	05BR0403 - 5	3/15/2005
SY-PL2-155C	3/14/2005	05BR0403 - 6	3/15/2005
SY-PL2-955A	3/14/2005	05BR0403 - 7	3/15/2005
SY-PL2-601A	3/14/2005	05BR0403 - 8	3/15/2005
SY-PL2-106A-F	3/14/2005	05BR0403 - 9	3/15/2005
SY-PL2-106B-F	3/14/2005	05BR0403 - 10	3/15/2005
SY-PL2-106C-F	3/14/2005	05BR0403 - 11	3/15/2005
SY-PL2-155A-F	3/14/2005	05BR0403 - 12	3/15/2005
SY-PL2-155B-F	3/14/2005	05BR0403 - 13	3/15/2005
SY-PL2-155C-F	3/14/2005	05BR0403 - 14	3/15/2005
SY-PL2-955A-F	3/14/2005	05BR0403 - 15	3/15/2005
SY-PL2-601A-F	3/14/2005	05BR0403 - 16	3/15/2005

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0403

ARI Client: The Boeing Company
ARI Project ID: HV52

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-106A	05BR0403 - 1	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-106B	05BR0403 - 2	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-106C	05BR0403 - 3	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155A	05BR0403 - 4	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155B	05BR0403 - 5	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155C	05BR0403 - 6	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-955A	05BR0403 - 7	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-601A	05BR0403 - 8	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0403

ARI Client: The Boeing Company
ARI Project ID: HV52

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-108A-F	05BR0403 - 9	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-108B-F	05BR0403 - 10	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-108C-F	05BR0403 - 11	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155A-F	05BR0403 - 12	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155B-F	05BR0403 - 13	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155C-F	05BR0403 - 14	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-955A-F	05BR0403 - 15	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-601A-F	05BR0403 - 16	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U

Tuesday, March 29, 2005

Elizabeth Madonick
Project Manager

BROOKS RAND LLC

DATA QUALIFIERS and their DEFINITIONS
(Effective 12/09/04)

B - Detected by the instrument, above MDL but less than the PQL (ML). Measured result is reported and considered an estimate.

E - An estimated value due to the presence of interferences. A full explanation will be presented in the case narrative.

H - Holding time and/or preservation requirements not met. Results are estimated.

J – Estimated value.

M -Duplicate precision (RPD) was not within acceptance criteria.

N - Spike recovery was not within acceptance criteria.

R - Rejected, unusable value. A full explanation will be presented in the QA Report.

U – Result below the method detection limit (MDL) and therefore analyte was not detected. Results reported at the MDL.

These qualifiers are based on those previously utilized by Brooks Rand, Ltd., those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18 and the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses; USEPA; July 1988. These supercede all previous qualifiers ever employed by BRL.

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0160
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0385, 05BR0403, 05BR0408 & 05BR0413
Project:	ARI004, DWQ002 & NEL002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 23, 2005
Calibration Date:	Match 21, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.24.05
Tressa K. Pearson-Franks
Quality Assurance Associate

000087

Analytical Resources, Incorporated
Analytical Chemists and Consultants

April 4, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HV67

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted twenty water samples in good condition on March 15, 2005. The samples were received at cooler temperatures of 5.0°C, 5.5°C and 6.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, total and dissolved metals and various conventional parameters. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV67

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HW017	Turn-around Requested: STANDARD
ARI Client Company: EPI / Boeing	Phone: 425-395-0010
Client Contact: Doug Kunkel / Josh Benthal	
Client Project Name: PZDG - South Yard ARER	
Client Project #: 17505	Samplers: JB / TK

Page: 1 of 3

Date: 3/15/05 | Ice Present?

No. of Coolers: 3 | Cooler Temps: 5° 5.5° 6°

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	Hex Chrome	Metals (Total)	Metals (Diss)	Dissolved TOC	Bacteria (Fecal Coliform, Nitrate, Sulfate)	Sulfide	LC H_2S	LC H_2S
SY-PL2-152A	3/15/05	0830	WATER	10	X		X		X		X	X	X	X	
SY-PL2-152A-F	3/15/05	0830	WATER	3				X		X					X
SY-PL2-152B	3/15/05	0930	WATER	7	X		X		X					X	
SY-PL2-152B-F	3/15/05	0930	WATER	2						X					X
SY-PL2-152C	3/15/05	1030	WATER	5	X				X					X	
SY-PL2-152C-F	3/15/05	1030	WATER	2						X					X
SY-PL2-601B	3/15/05	1130	WATER	8	X				X		X	X	X	X	
SY-PL2-601B-F	3/15/05	1130	WATER	2						X					X
SY-PL2-602A	3/15/05	1225	WATER	12	X	X	X		X		X	X	X	X	
SY-PL2-602A-F	3/15/05	1225	WATER	2						X					X

Notes/Comments

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
CC Dan Michot	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: Tatsu Komada	Printed Name: Bryan R. Bussey	Printed Name:	Printed Name:
	Company: EPI	Company: ARI	Company:	Company:
	Date & Time: 3/15/05 6:35PM	Date & Time: 3/15/05 1835	Date & Time:	Date & Time:

200002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HW67	Turn-around Requested: STANDARD
ARI Client Company: EPI / BOEING	Phone: 425-395-0010
Client Contact: DOUG KUNKEL / JOEL BERNTHAL	
Client Project Name: PZDG- SOUTH YARD AREA	
Client Project #: 17505	Samplers: JB / TK

Page: 2 of 3

Date: 3/15/05 | Ice Present?

No. of Coolers: 3 | Cooler Temps: 5° 5.5° 6°

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	Hex Chrome	Metals Totals	Metals (DIS)	Ammonia TOC	Redox Par Nitrate Nitrite Sulfate	Notes/Comments: VOC IRMA	TPH-Dx LL Hg Total	TPH-Dx LL Hg DIS	TPH-G	TPH-Dx
SY-PL2-602B	3/15/05	1330	WATER	8	X				X		X	X	X	X			
SY-PL2-602B-F	3/15/05	1330	WATER	2						X					X		
SY-PL2-603A	3/15/05	1445	WATER	16	X	X	X		X	NO	X	X	X	X		X	X
SY-PL2-603A-F	3/15/05	1445	WATER	2						X					X		
SY-PL2-603A-MS	3/15/05	1450	WATER	4												X	X
SY-PL2-603A-MSD	3/15/05	1455	WATER	4												X	X
SY-PL2-603B	3/15/05	1610	WATER	8	X				X		X	X	X	X			
SY-PL2-603B-F	3/15/05	1610	WATER	2						X					X		
SY-PL2-903B	3/15/05	0700	WATER	1					NO					X			
SY-PL2-903B-F	3/15/05	0700	WATER	1						NO					X		

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
CC Dan Machut	Printed Name: Tatsu Komada	Printed Name: Bryan R. Bussey	Printed Name	Printed Name:
	Company: EPI	Company: ARI	Company:	Company
	Date & Time: 3/15/05 6:35PM	Date & Time: 3/15/05 1835	Date & Time:	Date & Time:

00003

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HK67	Turn-around Requested: STANDARD
ARI Client Company: EPI / Boeing	Phone: 425-395-0010
Client Contact: Doug Kunkel / Josh Bernthal	
Client Project Name: PZDG - South Yard Area	
Client Project #: 17505	Samplers: JB / TK

Page: 3	of 3
Date: 3/15/05	Ice Present?
No. of Coolers: 3	Cooler Temps: 5° 5.5° 6°

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	Metals Total	Metals Dis	Ammonia TOC	Redox Pr Nitrate Nitrite Sulfide	Sulfate	LL Hg Tot	LL Hg Dis	NWTPH-G	NWTPH-Dx
SY-PLZ-115A	3/15/05	1725	WATER	16	X	X	X	X		X	X	X	X		X	X
SY-PLZ-115A-F	3/15/05	1725	WATER	2					X					X		

Notes/Comments

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
CC Dan Machut	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: Tatsu Komada	Printed Name: Bryan R Bussell	Printed Name	Printed Name:
	Company: EPI	Company: ARI	Company	Company:
	Date & Time: 3/15/05 6:35PM	Date & Time: 3/11/05 1835	Date & Time:	Date & Time:

000004

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV67

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV67
April 4, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0 with the exception of sample **SY-PL2-152C** which had pH 6-8. The samples were analyzed between 3/25/05 and 3/29/05 within the method recommended holding time.

The trip blank was made by ARI on 3/09/05, received on 3/15/05, and analyzed on 3/25/05.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: Sample **SY-PL2-603A** contained vinyl chloride at an "E" flag concentration. The sample was diluted and re-analyzed. Both runs are reported.

Sample **SY-PL2-115A** contained cis-1,2-dichloroethene at an "E" flag concentration and trichloroethene at an "ES" flag concentration that saturated the detector. The sample was diluted and re-analyzed. Both runs are reported.

There were no anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-603A.** All percent recoveries and RPDs for the analytes of interest were within compliance. The 2-chloroethylvinylether MS percent recovery was 21.2% due to the sample being run at a dilution. No corrective action was taken.

LCS/LCSD (s): 3/25/05 LCS/LCSD: The trichloroethene LCSD percent recovery was 118%. The current ARI limit is 117%. No corrective action was taken, as the LCS recovery and the RPD were compliant. The 2-chloroethylvinylether percent recoveries were out of control in the LCS/LCSD. As 2-chloroethylvinylether is not an analyte of interest, and the limits are considered advisory, no corrective action was taken. All other percent recoveries and RPDs for the analytes of interest were within compliance.

All percent recoveries and RPDs were in control for the 3/28/05 and 3/29/05 LCS/LCSDs.

Semivolatile Organics by Method 8270C:

The samples were extracted on 3/18/05 and analyzed on 3/23/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV67
April 4, 2005

SIM PNA by Method 8270C-SIM:

The samples were extracted on 3/18/05 and analyzed on 3/23/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The samples were extracted on 3/18/05 and were analyzed on 3/23/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

NWTPH-G

All samples were received with pH < 2.0. The samples were analyzed on 3/25/05 and 3/28/05 within the method recommended holding time.

The trip blank was made by ARI on 3/09/05, received on 3/15/05, and initially analyzed on 3/25/05. Due to failing continuing calibrations, the trip blank was re-analyzed out of the vial previously run on 3/25/05. There was significant TFT surrogate loss in the re-analysis due to headspace. As the initial run of the trip blank surrogates were compliant, no corrective action was taken.

Surrogates: Due to large trichloroethene concentrations in the native sample, the trifluorotoluene (TFT) surrogate recovery was not recovered in the initial and re-analysis of sample **SY-PL2-115A.**

Due to failing continuing calibrations, the trip blank was re-analyzed on 3/28/05. The only vial available for re-analysis was the vial previously run on 3/25/05. There was significant TFT surrogate loss in the re-analysis due to headspace. As the initial run of the trip blank surrogates were compliant, no corrective action was taken.

All other surrogate recoveries were in control.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV67
April 4, 2005

Method Blank: The method blanks were free of contamination.

Samples: Sample **SY-PL2-115A** was initially analyzed on 3/25/05. The continuing calibrations failed and the TFT surrogate was reported as "NR" due to high trichloroethene in the native sample. The sample was re-analyzed on 3/28/05 with passing calibrations and the TFT surrogate reported as "NR". Both runs are reported to show the surrogate interference was consistent.

The trip blank was made by ARI on 3/09/05, received on 3/15/05, and initially analyzed on 3/25/05. Due to failing continuing calibrations, the trip blank was re-analyzed out of the vial previously run on 3/25/05. There was significant TFT surrogate loss in the re-analysis due to headspace. As the initial run of the trip blank surrogates were compliant, no corrective action was taken.

There were no other anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-603A.** All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

NWTPH-D

The samples were extracted on 3/21/05 and were analyzed on 3/22/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with sample **SY-PL2-603A.** All percent recoveries and RPDs for the analytes of interest were within compliance.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved and Total Metals by Methods 6010 and 200.8

The samples were prepared on 3/18/05 and 3/21/05 and were analyzed between 3/21/05 and 3/23/05 within the method recommended holding times.

Method Blank(s): The method blanks were batched with samples from ARI job **HV52.** Copies of the MB/Spike Blanks are included for your review. The method blanks were free of element contamination.

Samples: Samples **SY-PL2-152C** and **SY-PL2-152C-F** were received unpreserved. The samples were pH adjusted prior to sample preparation. No anomalies were encountered for these samples.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV67
April 4, 2005

Matrix Spike: A batch matrix spike and a batch matrix duplicate were performed in association with samples **SY-PL2-106A** and **SY-PL2-106A-F.** All percent recoveries and RPDs were in control.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Conventional Parameters
The Hexavalent chrome samples were analyzed on 3/15/05 within the method recommended 24 hour holding time.
The Redox Potential samples were analyzed on 3/15/05 within the method recommended 24 hour holding time.
Ammonia samples were analyzed on 3/22/05 within the method recommended 28 day holding time.
Nitrate, nitrite and NO2+NO3 samples were analyzed on 3/16/05 within the method recommended 48 hour holding time.
Sulfate samples were analyzed on 3/19/05 within the method recommended 28 day holding time.
Sulfide samples were analyzed on 3/17/05 within the method recommended 7 day holding time.
Total Organic Carbon samples were analyzed on 3/16/05 within the method recommended 28 day holding time.

Method Blank(s): All method blanks were free of element contamination.

Samples: Nitrate, Nitrite, NO2+NO3 samples **SY-PL2-602A** and **SY-PL2-603A** were diluted due to negative peaks in the initial analysis. Sulfate sample **SY-PL2-602A** was diluted due to turbidity.

No other anomalies were encountered for these samples.

MS/MSD: All MS recoveries were in control.

LCS/SRM/Replicate: All recoveries were in control.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV67

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HV67

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
032905MB	Method Blank	110%	96.7%	88.5%	96.2%	0
HV67LCS	Lab Control	104%	99.0%	94.3%	90.1%	0
HV67LCD	LCDuplicate	119%	102%	101%	93.9%	0
HV67A	SY-PL2-152A	130%	104%	102%	99.5%	0
HV67B	SY-PL2-152B	124%	102%	93.8%	118%	0
HV67C	SY-PL2-152C	120%	105%	97.0%	105%	0
HV67D	SY-PL2-601B	125%	105%	98.8%	111%	0
HV67E	SY-PL2-602A	124%	106%	94.2%	108%	0
HV67F	SY-PL2-602B	117%	106%	95.8%	102%	0
032505MB	Method Blank	94.5%	93.3%	85.2%	97.4%	0
HV67LCS	Lab Control	105%	102%	103%	93.4%	0
HV67LCD	LCDuplicate	101%	101%	102%	94.4%	0
HV67G	SY-PL2-603A	112%	105%	103%	106%	0
HV67GDL	SY-PL2-603A	127%	108%	95.4%	104%	0
HV67GMS	SY-PL2-603A	114%	103%	103%	98.8%	0
HV67GMSD	SY-PL2-603A	113%	104%	107%	97.2%	0
HV67H	SY-PL2-603B	120%	99.8%	95.0%	106%	0
HV67J	SY-PL2-115A	126%	103%	97.5%	104%	0
HV67U	TRIP BLANK	122%	102%	94.5%	104%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: HV67

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
032805MB	Method Blank	94.7%	89.6%	85.8%	95.7%	0
HV67LCS	Lab Cntrl Sample	95.6%	89.6%	90.8%	94.0%	0
HV67LCSD	Lab Cntrl Sample Dp	96.8%	90.8%	89.5%	90.6%	0
HV67J-RE	SY-PL2-115A	95.2%	89.8%	84.0%	98.3%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032505
METHOD BLANK

Lab Sample ID: MB-032505
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 10:50

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0 2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0 2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.5%
d8-Toluene	93.3%
Bromofluorobenzene	85.2%
d4-1,2-Dichlorobenzene	97.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032805
METHOD BLANK

Lab Sample ID: MB-032805
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/28/05 13:20

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5 0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.7%
d8-Toluene	89.6%
Bromofluorobenzene	85.8%
d4-1,2-Dichlorobenzene	95.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032905
METHOD BLANK

Lab Sample ID: MB-032905
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 10:58

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	96.7%
Bromofluorobenzene	88.5%
d4-1,2-Dichlorobenzene	96.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: HV67A
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 14:17

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**2.9**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.1**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.2**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**1.1**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	104%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	99.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-152B
SAMPLE

Lab Sample ID: HV67B
LIMS ID: 05-5153
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 12:39

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.7**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**0.2**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	102%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	118%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-152C
SAMPLE

Lab Sample ID: HV67C
LIMS ID: 05-5154
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 14:04

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	105%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	105%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-601B
SAMPLE

Lab Sample ID: HV67D
LIMS ID: 05-5155
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 14:28

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**12**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.1**
75-15-0	**Carbon Disulfide**	**0.2**	**1.7**
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	**Chloroform**	**0.2**	**0.2**
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.4**
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	105%
Bromofluorobenzene	98.8%
d4-1,2-Dichlorobenzene	111%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 14:55

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**8.9**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.1**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.9**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.7**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**2.0**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	106%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	108%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-602B
SAMPLE

Lab Sample ID: HV67F
LIMS ID: 05-5157
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 15:22

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**9.8**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.1**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	**Chloroform**	**0.2**	**12**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	**Bromodichloromethane**	**0.2**	**0.5**
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.6**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	106%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 11:37

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**22 E**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**0.2**
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.3**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**6.5**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	**2-Butanone**	**1.0**	**1.7**
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**5.6**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**0.2**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in $\mu g/L$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	105%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A
DILUTION

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 12:56

Sample Amount: 10.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.4	< 0.4 U
74-83-9	Bromomethane	0.4	< 0.4 U
75-01-4	**Vinyl Chloride**	**0.4**	**24**
75-00-3	Chloroethane	0.4	< 0.4 U
75-09-2	Methylene Chloride	0.6	< 0.6 U
67-64-1	**Acetone**	**2.0**	**9.7**
75-15-0	Carbon Disulfide	0.4	< 0.4 U
75-35-4	1,1-Dichloroethene	0.4	< 0.4 U
75-34-3	**1,1-Dichloroethane**	**0.4**	**2.6**
156-60-5	**trans-1,2-Dichloroethene**	**0.4**	**0.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.4**	**7.0**
67-66-3	Chloroform	0.4	< 0.4 U
107-06-2	1,2-Dichloroethane	0.4	< 0.4 U
78-93-3	**2-Butanone**	**2.0**	**3.4**
71-55-6	1,1,1-Trichloroethane	0.4	< 0.4 U
56-23-5	Carbon Tetrachloride	0.4	< 0.4 U
108-05-4	Vinyl Acetate	0.4	< 0.4 U
75-27-4	Bromodichloromethane	0.4	< 0.4 U
78-87-5	1,2-Dichloropropane	0.4	< 0.4 U
10061-01-5	cis-1,3-Dichloropropene	0.4	< 0.4 U
79-01-6	Trichloroethene	0.4	< 0.4 U
124-48-1	Dibromochloromethane	0.4	< 0.4 U
79-00-5	1,1,2-Trichloroethane	0.4	< 0.4 U
71-43-2	**Benzene**	**0.4**	**5.7**
10061-02-6	trans-1,3-Dichloropropene	0.4	< 0.4 U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0 U
75-25-2	Bromoform	0.4	< 0.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2.0	< 2.0 U
591-78-6	2-Hexanone	2.0	< 2.0 U
127-18-4	Tetrachloroethene	0.4	< 0.4 U
79-34-5	1,1,2,2-Tetrachloroethane	0.4	< 0.4 U
108-88-3	Toluene	0.4	< 0.4 U
108-90-7	Chlorobenzene	0.4	< 0.4 U
100-41-4	Ethylbenzene	0.4	< 0.4 U
100-42-5	Styrene	0.4	< 0.4 U
75-69-4	Trichlorofluoromethane	0.4	< 0.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.4	< 0.4 U
1330-20-7	m,p-Xylene	0.8	< 0.8 U
95-47-6	o-Xylene	0.4	< 0.4 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	108%
Bromofluorobenzene	95.4%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A MATRIX SPIKE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 13:05

Sample Amount: 10.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.4	---
74-83-9	Bromomethane	0.4	---
75-01-4	Vinyl Chloride	0.4	---
75-00-3	Chloroethane	0.4	---
75-09-2	Methylene Chloride	0.6	---
67-64-1	Acetone	2.0	---
75-15-0	Carbon Disulfide	0.4	---
75-35-4	1,1-Dichloroethene	0.4	---
75-34-3	1,1-Dichloroethane	0.4	---
156-60-5	trans-1,2-Dichloroethene	0.4	---
156-59-2	cis-1,2-Dichloroethene	0.4	---
67-66-3	Chloroform	0.4	---
107-06-2	1,2-Dichloroethane	0.4	---
78-93-3	2-Butanone	2.0	---
71-55-6	1,1,1-Trichloroethane	0.4	---
56-23-5	Carbon Tetrachloride	0.4	---
108-05-4	Vinyl Acetate	0.4	---
75-27-4	Bromodichloromethane	0.4	---
78-87-5	1,2-Dichloropropane	0.4	---
10061-01-5	cis-1,3-Dichloropropene	0.4	---
79-01-6	Trichloroethene	0.4	---
124-48-1	Dibromochloromethane	0.4	---
79-00-5	1,1,2-Trichloroethane	0.4	---
71-43-2	Benzene	0.4	---
10061-02-6	trans-1,3-Dichloropropene	0.4	---
110-75-8	2-Chloroethylvinylether	1.0	---
75-25-2	Bromoform	0.4	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	2.0	---
591-78-6	2-Hexanone	2.0	---
127-18-4	Tetrachloroethene	0.4	---
79-34-5	1,1,2,2-Tetrachloroethane	0.4	---
108-88-3	Toluene	0.4	---
108-90-7	Chlorobenzene	0.4	---
100-41-4	Ethylbenzene	0.4	---
100-42-5	Styrene	0.4	---
75-69-4	Trichlorofluoromethane	0.4	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.4	---
1330-20-7	m,p-Xylene	0.8	---
95-47-6	o-Xylene	0.4	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	103%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	98.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A
MATRIX SPIKE DUPLICATE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 13:35

Sample Amount: 10.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.4	---
74-83-9	Bromomethane	0.4	---
75-01-4	Vinyl Chloride	0.4	---
75-00-3	Chloroethane	0.4	---
75-09-2	Methylene Chloride	0.6	---
67-64-1	Acetone	2.0	---
75-15-0	Carbon Disulfide	0.4	---
75-35-4	1,1-Dichloroethene	0.4	---
75-34-3	1,1-Dichloroethane	0.4	---
156-60-5	trans-1,2-Dichloroethene	0.4	---
156-59-2	cis-1,2-Dichloroethene	0.4	---
67-66-3	Chloroform	0.4	---
107-06-2	1,2-Dichloroethane	0.4	---
78-93-3	2-Butanone	2.0	---
71-55-6	1,1,1-Trichloroethane	0.4	---
56-23-5	Carbon Tetrachloride	0.4	---
108-05-4	Vinyl Acetate	0.4	---
75-27-4	Bromodichloromethane	0.4	---
78-87-5	1,2-Dichloropropane	0.4	---
10061-01-5	cis-1,3-Dichloropropene	0.4	---
79-01-6	Trichloroethene	0.4	---
124-48-1	Dibromochloromethane	0.4	---
79-00-5	1,1,2-Trichloroethane	0.4	---
71-43-2	Benzene	0.4	---
10061-02-6	trans-1,3-Dichloropropene	0.4	---
110-75-8	2-Chloroethylvinylether	1.0	---
75-25-2	Bromoform	0.4	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	2.0	---
591-78-6	2-Hexanone	2.0	---
127-18-4	Tetrachloroethene	0.4	---
79-34-5	1,1,2,2-Tetrachloroethane	0.4	---
108-88-3	Toluene	0.4	---
108-90-7	Chlorobenzene	0.4	---
100-41-4	Ethylbenzene	0.4	---
100-42-5	Styrene	0.4	---
75-69-4	Trichlorofluoromethane	0.4	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.4	---
1330-20-7	m,p-Xylene	0.8	---
95-47-6	o-Xylene	0.4	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	104%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	97.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603B
SAMPLE

Lab Sample ID: HV67H
LIMS ID: 05-5159
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 15:49

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**3.1**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**5.8**
75-15-0	**Carbon Disulfide**	**0.2**	**0.3**
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	**Chloroform**	**0.2**	**4.2**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	99.8%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 16:16

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**5.2**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.3**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**0.2**
75-34-3	**1,1-Dichloroethane**	**0.2**	**1.2**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.3**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**46 E**
67-66-3	**Chloroform**	**0.2**	**0.2**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**0.7**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**74 ES**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0 2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**0.2**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	103%
Bromofluorobenzene	97.5%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-115A REANALYSIS

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/28/05 15:32

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**4.8**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	**1,1-Dichloroethane**	**1.0**	**1.1**
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**49**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**110**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.2%
d8-Toluene	89.8%
Bromofluorobenzene	84.0%
d4-1,2-Dichlorobenzene	98.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HV67U
LIMS ID: 05-5172
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/09/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 16:44

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	102%
Bromofluorobenzene	94.5%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A MS/MSD

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst MS: FINN3/PAB
MSD: FINN3/PAB
Date Analyzed MS: 03/25/05 13:05
MSD: 03/25/05 13:35

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 20.0 mL
MSD: 20.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 0.2	5.8	8.0	72.5%	6.2	8.0	77.5%	6.7%
Bromomethane	< 0.2	6.6	8.0	82.5%	6.9	8.0	86.2%	4.4%
Vinyl Chloride	22.5	31.4	8.0	111%	30.2	8.0	96.2%	3.9%
Chloroethane	< 0.2	7.4	8.0	92.5%	7.7	8.0	96.2%	4.0%
Methylene Chloride	< 0.3	8.4	8.0	105%	8.0	8.0	100%	4.9%
Acetone	< 1.0	31.6	40.0	79.0%	30.4	40.0	76.0%	3.9%
Carbon Disulfide	< 0.2	6.9	8.0	86.2%	7.5	8.0	93.8%	8.3%
1,1-Dichloroethene	0.2	7.6	8.0	92.5%	8.0	8.0	97.5%	5.1%
1,1-Dichloroethane	2.3	10.7	8.0	105%	11.1	8.0	110%	3.7%
trans-1,2-Dichloroethene	0.5	8.6	8.0	101%	8.5	8.0	100%	1.2%
cis-1,2-Dichloroethene	6.5	14.8	8.0	104%	14.9	8.0	105%	0.7%
Chloroform	< 0.2	8.7	8.0	109%	8.5	8.0	106%	2.3%
1,2-Dichloroethane	< 0.2	8.1	8.0	101%	8.5	8.0	106%	4.8%
2-Butanone	1.7	34.2	40.0	81.2%	33.0	40.0	78.2%	3.6%
1,1,1-Trichloroethane	< 0.2	8.4	8.0	105%	8.5	8.0	106%	1.2%
Carbon Tetrachloride	< 0.2	7.2	8.0	90.0%	7.4	8.0	92.5%	2.7%
Vinyl Acetate	< 0.2	7.8	8.0	97.5%	7.7	8.0	96.2%	1.3%
Bromodichloromethane	< 0.2	6.7	8.0	83.8%	6.9	8.0	86.2%	2.9%
1,2-Dichloropropane	< 0.2	7.7	8.0	96.2%	7.9	8.0	98.8%	2.6%
cis-1,3-Dichloropropene	< 0.2	7.1	8.0	88.8%	7.4	8.0	92.5%	4.1%
Trichloroethene	0.4	8.2	8.0	97.5%	8.5	8.0	101%	3.6%
Dibromochloromethane	< 0.2	7.2	8.0	90.0%	7.3	8.0	91.2%	1.4%
1,1,2-Trichloroethane	< 0.2	6.9	8.0	86.2%	6.9	8.0	86.2%	0.0%
Benzene	5.6	13.2	8.0	95.0%	14.1	8.0	106%	6.6%
trans-1,3-Dichloropropene	< 0.2	6.9	8.0	86.2%	7.3	8.0	91.2%	5.6%
2-Chloroethylvinylether	< 0.5	1.7	8.0	21.2%	< 1.0	8.0	NA	NA
Bromoform	< 0.2	6.8	8.0	85.0%	6.7	8.0	83.8%	1.5%
4-Methyl-2-Pentanone (MIBK)	< 1.0	33.0	40.0	82.5%	33.4	40.0	83.5%	1.2%
2-Hexanone	< 1.0	34.8	40.0	87.0%	37.2	40.0	93.0%	6.7%
Tetrachloroethene	< 0.2	8.5	8.0	106%	8.6	8.0	108%	1.2%
1,1,2,2-Tetrachloroethane	< 0.2	7.6	8.0	95.0%	8.2	8.0	102%	7.6%
Toluene	0.2	8.4	8.0	102%	8.6	8.0	105%	2.4%
Chlorobenzene	< 0.2	8.1	8.0	101%	8.5	8.0	106%	4.8%
Ethylbenzene	< 0.2	9.3	8.0	116%	9.8	8.0	122%	5.2%
Styrene	< 0.2	7.4	8.0	92.5%	7.7	8.0	96.2%	4.0%
Trichlorofluoromethane	< 0.2	8.1	8.0	101%	8.4	8.0	105%	3.6%
1,1,2-Trichloro-1,2,2-trifl	< 0.2	7.7	8.0	96.2%	8.1	8.0	101%	5.1%
m,p-Xylene	< 0.4	17.8	16.0	111%	19.1	16.0	119%	7.0%
o-Xylene	< 0.2	7.0	8.0	87.5%	7.4	8.0	92.5%	5.6%

Results reported in µg/L
NA-No recovery due to high concentration of analyte in original sample, or calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-032505
LCS/LCSD

Lab Sample ID: LCS-032505
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/25/05 09:50
LCSD: 03/25/05 10:22

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.1	4.0	77.5%	3.1	4.0	77.5%	0.0%
Bromomethane	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
Vinyl Chloride	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Chloroethane	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Methylene Chloride	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Acetone	13.6	20.0	68.0%	12.9	20.0	64.5%	5.3%
Carbon Disulfide	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
1,1-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
1,1-Dichloroethane	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans-1,2-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
cis-1,2-Dichloroethene	4.0	4.0	100%	3.7	4.0	92.5%	7.8%
Chloroform	4.1	4.0	102%	4.0	4.0	100%	2.5%
1,2-Dichloroethane	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
2-Butanone	14.7	20.0	73.5%	13.9	20.0	69.5%	5.6%
1,1,1-Trichloroethane	4.2	4.0	105%	4.5	4.0	112%	6.9%
Carbon Tetrachloride	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Vinyl Acetate	3.5	4.0	87.5%	3.4	4.0	85.0%	2.9%
Bromodichloromethane	3.2	4.0	80.0%	3.2	4.0	80.0%	0.0%
1,2-Dichloropropane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
cis-1,3-Dichloropropene	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
Trichloroethene	3.8	4.0	95.0%	4.0	4.0	100%	5.1%
Dibromochloromethane	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.1	4.0	77.5%	3.2%
Benzene	4.0	4.0	100%	4.3	4.0	108%	7.2%
trans-1,3-Dichloropropene	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
2-Chloroethylvinylether	1.9	4.0	47.5%	1.8	4.0	45.0%	5.4%
Bromoform	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	15.1	20.0	75.5%	14.5	20.0	72.5%	4.1%
2-Hexanone	17.6	20.0	88.0%	17.0	20.0	85.0%	3.5%
Tetrachloroethene	4.5	4.0	112%	4.7	4.0	118%	4.3%
1,1,2,2-Tetrachloroethane	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Toluene	4.0	4.0	100%	4.1	4.0	102%	2.5%
Chlorobenzene	4.2	4.0	105%	4.3	4.0	108%	2.4%
Ethylbenzene	4.8	4.0	120%	5.0	4.0	125%	4.1%
Styrene	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Trichlorofluoromethane	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,1,2-Trichloro-1,2,2-trifl	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
m,p-Xylene	10.2	8.0	128%	10.0	8.0	125%	2.0%
o-Xylene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032505**
 LCS/LCSD

Lab Sample ID: LCS-032505
LIMS ID: 05-5158
Matrix: Water
Date Analyzed: 03/25/05 09:50
LCSD: 03/25/05 10:22

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	105%	101%
d8-Toluene	102%	101%
Bromofluorobenzene	103%	102%
d4-1,2-Dichlorobenzene	93.4%	94.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-032805
LCS/LCSD

Lab Sample ID: LCS-032805
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT3/PAB
LCSD: NT3/PAB
Date Analyzed LCS: 03/28/05 12:27
LCSD: 03/28/05 12:54

Sample Amount LCS: 5.00 mL
LCSD: 5.00 mL
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	40.0	50.0	80.0%	37.0	50.0	74.0%	7.8%
Bromomethane	44.8	50.0	89.6%	41.7	50.0	83.4%	7.2%
Vinyl Chloride	52.8	50.0	106%	50.1	50.0	100%	5.2%
Chloroethane	48.1	50.0	96.2%	44.6	50.0	89.2%	7.6%
Methylene Chloride	51.0	50.0	102%	47.4	50.0	94.8%	7.3%
Acetone	225	250	90.0%	209	250	83.6%	7.4%
Carbon Disulfide	57.8	50.0	116%	54.7	50.0	109%	5.5%
1,1-Dichloroethene	49.6	50.0	99.2%	44.4	50.0	88.8%	11.1%
1,1-Dichloroethane	47.1	50.0	94.2%	44.1	50.0	88.2%	6.6%
trans-1,2-Dichloroethene	49.9	50.0	99.8%	46.4	50.0	92.8%	7.3%
cis-1,2-Dichloroethene	50.7	50.0	101%	46.2	50.0	92.4%	9.3%
Chloroform	47.6	50.0	95.2%	44.1	50.0	88.2%	7.6%
1,2-Dichloroethane	46.3	50.0	92.6%	42.3	50.0	84.6%	9.0%
2-Butanone	215	250	86.0%	204	250	81.6%	5.3%
1,1,1-Trichloroethane	46.0	50.0	92.0%	43.6	50.0	87.2%	5.4%
Carbon Tetrachloride	57.2	50.0	114%	52.0	50.0	104%	9.5%
Vinyl Acetate	44.2	50.0	88.4%	41.8	50.0	83.6%	5.6%
Bromodichloromethane	47.6	50.0	95.2%	43.8	50.0	87.6%	8.3%
1,2-Dichloropropane	47.4	50.0	94.8%	43.7	50.0	87.4%	8.1%
cis-1,3-Dichloropropene	45.1	50.0	90.2%	41.3	50.0	82.6%	8.8%
Trichloroethene	47.8	50.0	95.6%	43.8	50.0	87.6%	8.7%
Dibromochloromethane	47.7	50.0	95.4%	43.2	50.0	86.4%	9.9%
1,1,2-Trichloroethane	48.0	50.0	96.0%	43.8	50.0	87.6%	9.2%
Benzene	49.1	50.0	98.2%	45.5	50.0	91.0%	7.6%
trans-1,3-Dichloropropene	44.7	50.0	89.4%	41.3	50.0	82.6%	7.9%
2-Chloroethylvinylether	34.9	50.0	69.8%	32.7	50.0	65.4%	6.5%
Bromoform	51.6	50.0	103%	45.7	50.0	91.4%	12.1%
4-Methyl-2-Pentanone (MIBK)	214	250	85.6%	203	250	81.2%	5.3%
2-Hexanone	208	250	83.2%	196	250	78.4%	5.9%
Tetrachloroethene	47.3	50.0	94.6%	43.6	50.0	87.2%	8.1%
1,1,2,2-Tetrachloroethane	49.1	50.0	98.2%	44.3	50.0	88.6%	10.3%
Toluene	47.4	50.0	94.8%	43.4	50.0	86.8%	8.8%
Chlorobenzene	48.7	50.0	97.4%	44.8	50.0	89.6%	8.3%
Ethylbenzene	46.7	50.0	93.4%	42.2	50.0	84.4%	10.1%
Styrene	44.3	50.0	88.6%	39.8	50.0	79.6%	10.7%
Trichlorofluoromethane	49.4	50.0	98.8%	46.6	50.0	93.2%	5.8%
1,1,2-Trichloro-1,2,2-trifl	53.8	50.0	108%	51.0	50.0	102%	5.3%
m,p-Xylene	94.5	100	94.5%	85.7	100	85.7%	9.8%
o-Xylene	44.7	50.0	89.4%	40.5	50.0	81.0%	9.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032805**
 LCS/LCSD

Lab Sample ID: LCS-032805
LIMS ID: 05-5161
Matrix: Water
Date Analyzed: 03/28/05 12:27
LCSD: 03/28/05 12:54

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	95.6%	96.8%
d8-Toluene	89.6%	90.8%
Bromofluorobenzene	90.8%	89.5%
d4-1,2-Dichlorobenzene	94.0%	90.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-032905
LCS/LCSD

Lab Sample ID: LCS-032905
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/29/05 09:54
LCSD: 03/29/05 10:30

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
Bromomethane	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
Vinyl Chloride	4.1	4.0	102%	4.0	4.0	100%	2.5%
Chloroethane	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Methylene Chloride	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
Acetone	16.3	20.0	81.5%	16.0	20.0	80.0%	1.9%
Carbon Disulfide	4.1	4.0	102%	4.3	4.0	108%	4.8%
1,1-Dichloroethene	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1-Dichloroethane	4.4	4.0	110%	4.6	4.0	115%	4.4%
trans-1,2-Dichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
cis-1,2-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
Chloroform	4.1	4.0	102%	4.4	4.0	110%	7.1%
1,2-Dichloroethane	3.8	4.0	95.0%	4.2	4.0	105%	10.0%
2-Butanone	18.2	20.0	91.0%	19.3	20.0	96.5%	5.9%
1,1,1-Trichloroethane	4.2	4.0	105%	4.5	4.0	112%	6.9%
Carbon Tetrachloride	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
Vinyl Acetate	3.9	4.0	97.5%	4.4	4.0	110%	12.0%
Bromodichloromethane	3.3	4.0	82.5%	3.6	4.0	90.0%	8.7%
1,2-Dichloropropane	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
cis-1,3-Dichloropropene	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
Trichloroethene	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Dibromochloromethane	3.4	4.0	85.0%	3.9	4.0	97.5%	13.7%
1,1,2-Trichloroethane	3.1	4.0	77.5%	3.6	4.0	90.0%	14.9%
Benzene	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
trans-1,3-Dichloropropene	3.6	4.0	90.0%	4.0	4.0	100%	10.5%
2-Chloroethylvinylether	2.0	4.0	50.0%	2.2	4.0	55.0%	9.5%
Bromoform	3.4	4.0	85.0%	3.7	4.0	92.5%	8.5%
4-Methyl-2-Pentanone (MIBK)	16.9	20.0	84.5%	19.3	20.0	96.5%	13.3%
2-Hexanone	19.1	20.0	95.5%	21.5	20.0	108%	11.8%
Tetrachloroethene	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
1,1,2,2-Tetrachloroethane	3.6	4.0	90.0%	4.1	4.0	102%	13.0%
Toluene	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
Chlorobenzene	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
Ethylbenzene	4.4	4.0	110%	4.7	4.0	118%	6.6%
Styrene	4.1	4.0	102%	3.8	4.0	95.0%	7.6%
Trichlorofluoromethane	4.3	4.0	108%	4.4	4.0	110%	2.3%
1,1,2-Trichloro-1,2,2-trifl	4.1	4.0	102%	4.2	4.0	105%	2.4%
m,p-Xylene	8.6	8.0	108%	9.2	8.0	115%	6.7%
o-Xylene	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032905**
 LCS/LCSD

Lab Sample ID: LCS-032905
LIMS ID: 05-5152
Matrix: Water
Date Analyzed: 03/29/05 09:54
LCSD: 03/29/05 10:30

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	104%	119%
d8-Toluene	99.0%	102%
Bromofluorobenzene	94.3%	101%
d4-1,2-Dichlorobenzene	90.1%	93.9%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-031805	77.2%	73.6%	89.6%	64.4%	77.3%	73.9%	81.1%	79.7%	0
LCS-031805	76.8%	71.2%	85.2%	62.4%	74.4%	71.7%	80.3%	73.1%	0
LCSD-031805	80.8%	74.8%	88.0%	64.8%	79.5%	76.0%	86.1%	77.9%	0
SY-PL2-602A	68.8%	66.4%	80.0%	62.0%	68.0%	63.5%	62.4%	71.7%	0
SY-PL2-603A	82.0%	77.2%	85.6%	71.6%	82.1%	76.8%	88.5%	82.9%	0
SY-PL2-115A	76.0%	71.2%	83.6%	65.2%	73.9%	70.4%	84.0%	74.9%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-5156 to 05-5161

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 15:00
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5156
Matrix: Water
Date Analyzed: 03/23/05 15:00

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.2%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	89.6%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	77.3%	2-Fluorophenol	73.9%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	79.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 19:25
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Date Analyzed: 03/23/05 19:25

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.8%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	68.0%	2-Fluorophenol	63.5%
2,4,6-Tribromophenol	62.4%	d4-2-Chlorophenol	71.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 19:57
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Date Analyzed: 03/23/05 19:57

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.0%	2-Fluorobiphenyl	77.2%
d14-p-Terphenyl	85.6%	d4-1,2-Dichlorobenzene	71.6%
d5-Phenol	82.1%	2-Fluorophenol	76.8%
2,4,6-Tribromophenol	88.5%	d4-2-Chlorophenol	82.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized?
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 20:30
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Date Analyzed: 03/23/05 20:30

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.0%	2-Fluorobiphenyl	71.2%
d14-p-Terphenyl	83.6%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	73.9%	2-Fluorophenol	70.4%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	74.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted LCS/LCSD: 03/18/05

Date Analyzed LCS: 03/23/05 15:33
LCSD: 03/23/05 16:06
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	25.1	37.5	66.9%	29.2	37.5	77.9%	15.1%
2-Chlorophenol	25.7	37.5	68.5%	29.7	37.5	79.2%	14.4%
1,4-Dichlorobenzene	12.9	25.0	51.6%	13.6	25.0	54.4%	5.3%
N-Nitroso-Di-N-Propylamine	17.4	25.0	69.6%	20.7	25.0	82.8%	17.3%
1,2,4-Trichlorobenzene	13.8	25.0	55.2%	14.4	25.0	57.6%	4.3%
4-Chloro-3-methylphenol	28.2	37.5	75.2%	33.1	37.5	88.3%	16.0%
Acenaphthene	17.1	25.0	68.4%	19.6	25.0	78.4%	13.6%
4-Nitrophenol	32.9	37.5	87.7%	38.8	37.5	103%	16.5%
2,4-Dinitrotoluene	17.9	25.0	71.6%	21.4	25.0	85.6%	17.8%
Pentachlorophenol	27.5	37.5	73.3%	30.9	37.5	82.4%	11.6%
Phenanthrene	2.4	3.0	80.0%	2.8	3.0	93.3%	12.3%
Pyrene	19.1	25.0	76.4%	21.8	25.0	87.2%	13.2%
Chrysene	2.5	3.0	83.3%	2.9	3.0	96.7%	12.5%
Benzo(k)fluoranthene	2.3	3.0	76.7%	2.6	3.0	86.7%	10.3%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	76.8%	80.8%
2-Fluorobiphenyl	71.2%	74.8%
d14-p-Terphenyl	85.2%	88.0%
d4-1,2-Dichlorobenzene	62.4%	64.8%
d5-Phenol	74.4%	79.5%
2-Fluorophenol	71.7%	76.0%
2,4,6-Tribromophenol	80.3%	86.1%
d4-2-Chlorophenol	73.1%	77.9%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	MNP	DBA	TOT OUT
MB-031805	76.0%	99.3%	0
LCS-031805	89.0%	105%	0
LCSD-031805	81.3%	93.0%	0
SY-PL2-602A	73.3%	69.0%	0
SY-PL2-603A	77.7%	84.3%	0
SY-PL2-115A	80.7%	102%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-5156 to 05-5161

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 11:48
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.0%
d14-Dibenzo(a,h)anthracene	99.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 13:30
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracene	69.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 13:55
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.7%
d14-Dibenzo(a,h)anthracene	84.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 14:20
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	80.7%
d14-Dibenzo(a,h)anthracene	102%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted LCS/LCSD: 03/18/05

Date Analyzed LCS: 03/23/05 12:14
LCSD: 03/23/05 12:39
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.67	3.00	89.0%	2.89	3.00	96.3%	7.9%
Chrysene	2.75	3.00	91.7%	3.02	3.00	101%	9.4%
Benzo(k)fluoranthene	2.51	3.00	83.7%	2.97	3.00	99.0%	16.8%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	89.0%	81.3%
d14-Dibenzo(a,h)anthracene	105%	93.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	DCBP	TCMX	TOT OUT
MB-031805	123%	88.2%	0
LCS-031805	97.8%	86.5%	0
LCSD-031805	106%	80.8%	0
SY-PL2-152A	86.5%	64.2%	0
SY-PL2-152B	83.2%	86.0%	0
SY-PL2-602A	55.5%	82.5%	0
SY-PL2-603A	111%	82.2%	0
SY-PL2-115A	115%	90.0%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-5152 to 05-5161

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-031805
METHOD BLANK

Lab Sample ID: MB-031805
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 00:41
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	123%
Tetrachlorometaxylene	88.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: HV67A
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:23
Instrument/Analyst. ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.5%
Tetrachlorometaxylene	64.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-152B
SAMPLE

Lab Sample ID: HV67B
LIMS ID: 05-5153
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:40
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in μg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.2%
Tetrachlorometaxylene	86.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:57
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	55.5%
Tetrachlorometaxylene	82.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 03:14
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	82.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 03:31
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	90.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-031805
LCS/LCSD

Lab Sample ID: LCS-031805
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/18/05

Date Analyzed LCS: 03/23/05 00:58
LCSD: 03/23/05 01:15
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.45	5.12	86.9%	4.49	5.12	87.7%	0.9%
Aroclor 1260	5.28	5.12	103%	5.13	5.12	100%	2.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	97.8%	106%
Tetrachlorometaxylene	86.5%	80.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

NWTPH-G

ANALYTICAL RESOURCES INCORPORATED

WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: HV67

LIMS ID	Lab ID	Client ID	TFT	BB	TOT OUT
05-5158MB	032505MB	Method Blank	96.0%	90.6%	0
05-5158LC	032505LC	Lab Control	95.9%	93.2%	0
05-5158LCD	032505LCD	Lab Control Dup	96.3%	95.1%	0
05-5158	HV67G	SY-PL2-603A	78.3%	79.4%	0
05-5158	HV67G-RE	SY-PL2-603A	100%	102%	0
05-5158	HV67G-MS	SY-PL2-603A	86.5%	82.1%	0
05-5158	HV67G-MSD	SY-PL2-603A	82.2%	81.7%	0
05-5161MB	032805MB	Method Blank	98.2%	92.6%	0
05-5161LC	032805LC	Lab Control	98.7%	85.9%	0
05-5161LCD	032805LCD	Lab Control Dup	101%	95.5%	0
05-5161	HV67J	SY-PL2-115A	NR	77.8%	0
05-5161	HV67J-RE	SY-PL2-115A	NR	102%	0
05-5172	HV67U	TRIP BLANK	84.0%	83.3%	0
05-5172	HV67U-RE	TRIP BLANK	31.4%*	60.5%	1

	MB/LCS QC LIMITS	SAMPLE QC LIMITS
(TFT) = Trifluorotoluene	(79-124)	(53-133)
(BB) = Bromobenzene	(78-119)	(56-132)

Limits Updated - 01/18/05

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

Data Release Authorized:
Reported: 03/31/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-032505	Method Blank	03/25/05		Gasoline	< 0.25 U
05-5158		PID2		HC ID	---
				Trifluorotoluene	96.0%
				Bromobenzene	90.6%
HV67G	SY-PL2-603A	03/25/05		Gasoline	< 0.25 U
05-5158		PID2		HC ID	---
				Trifluorotoluene	78.3%
				Bromobenzene	79.4%
HV67GRE	SY-PL2-603A	03/28/05		Gasoline	< 0.25 U
05-5158		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	102%
MB-032805	Method Blank	03/28/05		Gasoline	< 0.25 U
05-5161		PID2		HC ID	---
				Trifluorotoluene	98.2%
				Bromobenzene	92.6%
HV67J	SY-PL2-115A	03/25/05		Gasoline	< 0.25 U
05-5161		PID2		HC ID	---
				Trifluorotoluene	NR
				Bromobenzene	77.8%
HV67JRE	SY-PL2-115A	03/28/05		Gasoline	< 0.25 U
05-5161		PID2		HC ID	---
				Trifluorotoluene	NR
				Bromobenzene	102%
HV67U	TRIP BLANK	03/25/05		Gasoline	< 0.25 U
05-5172		PID2		HC ID	---
				Trifluorotoluene	84.0%
				Bromobenzene	83.3%
HV67URE	TRIP BLANK	03/28/05		Gasoline	< 0.25 U
05-5172		PID2		HC ID	---
				Trifluorotoluene	31.4%
				Bromobenzene	60.5%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene

Sample ID: SY-PL2-603A
MS/MSD

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst MS: PID2/PKC
MSD: PID2/PKC
Date Analyzed MS: 03/25/05 20:02
MSD: 03/25/05 20:29

Sample Amount MS: 5.0 mL
MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons	< 0.25 U	2.06	2.50	82.4%	2.13	2.50	85.2%	3.3%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	MS	MSD
Trifluorotoluene	86.5%	82.2%
Bromobenzene	82.1%	81.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene

Sample ID: LCS-032505
LCS/LCSD

Lab Sample ID: LCS-032505
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC
Date Analyzed LCS: 03/25/05 14:34
LCSD: 03/25/05 15:01

Sample Amount LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	2.48	2.50	99.2%	2.54	2.50	102%	2.4%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	95.9%	96.3%
Bromobenzene	93.2%	95.1%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene

Sample ID: LCS-032805
LCS/LCSD

Lab Sample ID: LCS-032805
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC
Date Analyzed LCS: 03/28/05 15:33
LCSD: 03/28/05 16:01

Sample Amount LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.81	2.50	72.4%	2.46	2.50	98.4%	30.4%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.7%	101%
Bromobenzene	85.9%	95.5%

FORM III

NWTPH-D

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

Client ID	OTER	TOT OUT
MB-032105	80.0%	0
LCS-032105	78.9%	0
LCSD-032105	82.7%	0
SY-PL2-603A	84.2%	0
SY-PL2-603A MS	86.7%	0
SY-PL2-603A MSD	72.7%	0
SY-PL2-115A	85.1%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(54-131)	(46-123)

Prep Method: SW3510C
Log Number Range: 05-5158 to 05-5161

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Received: 03/15/05

Data Release Authorized:
Reported: 03/24/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-032105	Method Blank	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5158	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	80.0%
HV67G	SY-PL2-603A	03/21/05	03/22/05	1.0	**Diesel**	**0.65**
05-5158	HC ID: **DRO**		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	84.2%
HV67J	SY-PL2-115A	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5161	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	85.1%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: SY-PL2-603A
MS/MSD

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted MS/MSD: 03/21/05

Date Analyzed MS: 03/22/05 20:30
MSD: 03/22/05 20:45
Instrument/Analyst MS: FID/ESJ
MSD: FID/ESJ

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	0.65	3.42	3.00	92.3%	3.12	3.00	82.3%	9.2%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID

Sample ID: LCS-032105
LCS/LCSD

Lab Sample ID: LCS-032105
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted LCS/LCSD: 03/21/05

Date Analyzed LCS: 03/22/05 19:44
LCSD: 03/22/05 19:59
Instrument/Analyst LCS: FID/ESJ
LCSD: FID/ESJ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.64	3.00	88.0%	2.76	3.00	92.0%	4.4%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	78.9%	82.7%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: HV67
Matrix: Water
Project: P2DG-South Yard Area
Date Received: 03/15/05
17505

ARI ID	Client ID	Client Amt	Final Vol	Prep Date
05-5158-032105MB1	Method Blank	500 mL	1.00 mL	03/21/05
05-5158-032105LCS1	Lab Control	500 mL	1.00 mL	03/21/05
05-5158-032105LCSD1	Lab Control Dup	500 mL	1.00 mL	03/21/05
05-5158-HV67G	SY-PL2-603A	500 mL	1.00 mL	03/21/05
05-5158-HV67GMS	SY-PL2-603A	500 mL	1.00 mL	03/21/05
05-5158-HV67GMSD	SY-PL2-603A	500 mL	1.00 mL	03/21/05
05-5161-HV67J	SY-PL2-115A	500 mL	1.00 mL	03/21/05

TOTAL & DISSOLVED METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: HV67A
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.4**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**6**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**2.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**475**	
200.8	03/21/05	200.8	03/23/05	**7440-02-0**	**Nickel**	0.5	**0.7**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**19**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-152B
SAMPLE

Lab Sample ID: HV67B
LIMS ID: 05-5153
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.7**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**367**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.8**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	3	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-152C
SAMPLE

Lab Sample ID: HV67C
LIMS ID: 05-5154
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**1.7**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**13**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.9**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**228**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**3.4**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**6**	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-601B
SAMPLE

Lab Sample ID: HV67D
LIMS ID: 05-5155
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.6**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.3**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**412**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.5**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**7**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**31.4**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.2**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**3,020**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.5**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**4**	
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**10**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-602B
SAMPLE

Lab Sample ID: HV67F
LIMS ID: 05-5157
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**1.2**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**227**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.4**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**4**	
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**953**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**12.6**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.9**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**2,890**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.2**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603B
SAMPLE

Lab Sample ID: HV67H
LIMS ID: 05-5159
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**1.3**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**341**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.6**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**414**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.8**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**21**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**4.3**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**96**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.5**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-152A-F
SAMPLE

Lab Sample ID: HV67K
LIMS ID: 05-5162
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.4**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**495**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.9**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**16**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-152B-F
SAMPLE

Lab Sample ID: HV67L
LIMS ID: 05-5163
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.8**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**389**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-152C-F
SAMPLE

Lab Sample ID: HV67M
LIMS ID: 05-5164
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**1.4**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**11**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.8**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**239**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**3.1**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**6**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-601B-F
SAMPLE

Lab Sample ID: HV67N
LIMS ID: 05-5165
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.6**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**442**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.5**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-602A-F
SAMPLE

Lab Sample ID: HV670
LIMS ID: 05-5166
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**30.3**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.8**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**3,170**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.8**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**4**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-602B-F
SAMPLE

Lab Sample ID: HV67P
LIMS ID: 05-5167
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**1.1**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**261**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.1**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**717**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-603A-F
SAMPLE

Lab Sample ID: HV67Q
LIMS ID: 05-5168
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**12.7**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**3,170**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.7**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-603B-F
SAMPLE

Lab Sample ID: HV67R
LIMS ID: 05-5169
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**2.0**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**361**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.7**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**382**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-115A-F
SAMPLE

Lab Sample ID: HV67T
LIMS ID: 05-5171
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**6**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.3**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/22/05	**7439-96-5**	**Manganese**	1	**90**	
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106A
DUPLICATE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	38.4	39.7	3.3%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	5 U	5 U	0.0%	+/- 5	L
Copper	200.8	1.7	1.8	5.7%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	1,310	1,440	9.5%	+/- 20%	
Nickel	200.8	1.8	1.9	5.4%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	8	9	11.8%	+/- 3	L
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106A
MATRIX SPIKE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	50.0 U	1,570	2,000	78.5%	
Arsenic	200.8	38.4	65.0	25.0	106%	
Beryllium	6010B	1.00 U	435	500	87.0%	
Cadmium	6010B	2.00 U	445	500	89.0%	
Chromium	6010B	5.00 U	426	500	85.2%	
Copper	200.8	1.66	25.1	25.0	93.8%	
Lead	200.8	1.00 U	24.2	25.0	96.8%	
Manganese	6010B	1,310	1,720	500	82.0%	
Nickel	200.8	1.82	25.7	25.0	95.5%	
Selenium	6010B	50.0 U	1,780	2,000	89.0%	
Silver	200.8	0.200 U	23.7	25.0	94.8%	
Thallium	6010B	50.0 U	1,630	2,000	81.5%	
Thallium	200.8	0.200 U	24.1	25.0	96.4%	
Vanadium	6010B	7.96	458	500	90.0%	
Zinc	6010B	6.00 U	427	500	85.4%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV52MB
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
3010A	03/18/05	6010B	03/21/05	7439-96-5	Manganese	1	1	U
200.8	03/21/05	200.8	03/22/05	7440-02-0	Nickel	0.5	0.5	U
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HV52LCS
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized
Reported: 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2030	2000	102%	
Arsenic	200.8	25.8	25.0	103%	
Beryllium	6010B	476	500	95.2%	
Cadmium	6010B	486	500	97.2%	
Chromium	6010B	471	500	94.2%	
Copper	200.8	26.4	25.0	106%	
Lead	200.8	24.3	25.0	97.2%	
Manganese	6010B	479	500	95.8%	
Nickel	200.8	26.1	25.0	104%	
Selenium	6010B	1870	2000	93.5%	
Silver	200.8	25.5	25.0	102%	
Thallium	6010B	1810	2000	90.5%	
Thallium	200.8	24.2	25.0	96.8%	
Vanadium	6010B	479	500	95.8%	
Zinc	6010B	470	500	94.0%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-106A-F
DUPLICATE

Lab Sample ID: HV52I
LIMS ID: 05-5097
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	35.1	36.6	4.2%	+/- 20%	
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	5 U	5 U	0.0%	+/- 5	L
Copper	200.8	1.2	1.2	0.0%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Manganese	6010B	1,440	1,450	0.7%	+/- 20%	
Nickel	200.8	1.8	1.9	5.4%	+/- 0.5	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	6010B	9	9	0.0%	+/- 3	L
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in $\mu g/L$

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-106A-F
MATRIX SPIKE

Lab Sample ID: HV52I
LIMS ID: 05-5097
Matrix: Water
Data Release Authorized
Reported. 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample		Spike	Spike Added	% Recovery	Q
Antimony	6010B	50	U	2,180	2,000	109%	
Arsenic	200.8	35.1		62.8	25.0	111%	
Beryllium	6010B	1	U	545	500	109%	
Cadmium	6010B	2	U	557	500	111%	
Chromium	6010B	5	U	525	500	105%	
Copper	200.8	1.2		24.9	25.0	94.8%	
Lead	200.8	1	U	25	25	100%	
Manganese	6010B	1,440		1,980	500	108%	
Nickel	200.8	1.8		26.1	25.0	97.2%	
Selenium	6010B	50	U	2,360	2,000	118%	
Silver	200.8	0.2	U	24.9	25.0	99.6%	
Thallium	6010B	50	U	2,070	2,000	104%	
Thallium	200.8	0.2	U	24.5	25.0	98.0%	
Vanadium	6010B	9		562	500	111%	
Zinc	6010B	6	U	543	500	109%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV52MB
LIMS ID: 05-5099
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
6010B	03/18/05	6010B	03/21/05	7439-96-5	Manganese	1	1	U
200.8	03/21/05	200.8	03/22/05	7440-02-0	Nickel	0.5	0.5	U
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HV52LCS
LIMS ID: 05-5099
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2120	2000	106%	
Arsenic	200.8	26.6	25.0	106%	
Beryllium	6010B	543	500	109%	
Cadmium	6010B	566	500	113%	
Chromium	6010B	531	500	106%	
Copper	200.8	27.2	25.0	109%	
Lead	200.8	25	25	100%	
Manganese	6010B	529	500	106%	
Nickel	200.8	26.5	25.0	106%	
Selenium	6010B	2330	2000	116%	
Silver	200.8	26.2	25.0	105%	
Thallium	6010B	2150	2000	108%	
Thallium	200.8	24.9	25.0	99.6%	
Vanadium	6010B	545	500	109%	
Zinc	6010B	537	500	107%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-152A
ARI ID: 05-5152 HV67A

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	64.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.020	1.56
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	0.080
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	0.080
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	20.0	112
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	3.39

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-601B
ARI ID: 05-5155 HV67D

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	55.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	7.80
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	9.7
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	11.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: arf
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-602A
ARI ID: 05-5156 HV67E

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	9.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.050	3.86
N-Nitrate	03/16/05	Calculated	mg-N/L	0.500	< 0.500 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.500	< 0.500 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.500	< 0.500 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	10.0	124
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	7.34

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-602B
ARI ID: 05-5157 HV67F

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	48.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.050	2.36
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	0.011
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	0.011
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	5.3
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	0.15
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	6.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ah
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-603A
ARI ID: 05-5158 HV67G

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	19.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	5.91
N-Nitrate	03/16/05	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	20.0	126
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	10.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-603B
ARI ID: 05-5159 HV67H

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	40.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	5.29
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	8.0
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	13.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-115A
ARI ID: 05-5161 HV67J

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	74.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.010	0.158
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	33.0
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	2.01

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-152A-F
ARI ID: 05-5162 HV67K

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/15/05 031505#2	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ard
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Hexavalent Chrome	03/15/05	mg/L	< 0.010 U
N-Ammonia	03/22/05	mg-N/L	< 0.010 U
N-Nitrite	03/16/05	mg-N/L	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	< 0.010 U
Sulfate	03/19/05	mg/L	< 2.0 U
Sulfide	03/17/05	mg/L	< 0.05 U
Total Organic Carbon	03/16/05	mg/L	< 1.50 U

LAB CONTROL RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Sulfide	03/17/05	mg/L	6.79	7.95	85.4%

STANDARD REFERENCE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Hexavalent Chrome ERA #08062.8	03/15/05	mg/L	0.581	0.560	103.8%
N-Ammonia SPEX 28-24AS	03/22/05	mg-N/L	0.526	0.500	105.2%
N-Nitrite ERA #23034	03/16/05	mg-N/L	0.504	0.500	100.8%
Nitrate + Nitrite (NO3+NO2) ERA #20034	03/16/05	mg-N/L	0.512	0.500	102.4%
Sulfate ERA #08113	03/19/05	mg/L	26.0	25.0	104.0%
Total Organic Carbon SPEX #28-53AS	03/16/05	mg/L	19.2	20.0	96.0%

REPLICATE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: arp
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HV67A Client ID: SY-PL2-152A					
Redox Potential	03/15/05	mv	64.0	64.0	0.0%
N-Nitrite	03/16/05	mg-N/L	< 0.010	< 0.010	NA
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	0.080	0.080	0.0%
ARI ID: HV67J Client ID: SY-PL2-115A					
Sulfide	03/17/05	mg/L	< 0.05	< 0.05	NA
ARI ID: HV67K Client ID: SY-PL2-152A-F					
Hexavalent Chrome	03/15/05	mg/L	< 0.011	< 0.011	NA

MS/MSD RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HV67A Client ID: SY-PL2-152A						
N-Nitrite	03/16/05	mg-N/L	< 0.010	0.498	0.500	99.6%
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	0.080	0.569	0.500	97.8%
ARI ID: HV67J Client ID: SY-PL2-115A						
Sulfide	03/17/05	mg/L	< 0.05	0.69	0.80	86.2%
ARI ID: HV67K Client ID: SY-PL2-152A-F						
Hexavalent Chrome	03/15/05	mg/L	< 0.011	0.476	0.620	76.8%

LOW LEVEL MERCURY

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0407

ARI Client: The Boeing Company
ARI Project ID: HV67

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-PL2-152A	3/15/2005	05BR0407 - 1	3/16/05
SY-PL2-152B	3/15/2005	05BR0407 - 2	3/16/05
SY-PL2-152C	3/15/2005	05BR0407 - 3	3/16/05
SY-PL2-601B	3/15/2005	05BR0407 - 4	3/16/05
SY-PL2-602A	3/15/2005	05BR0407 - 5	3/16/05
SY-PL2-602B	3/15/2005	05BR0407 - 6	3/16/05
SY-PL2-603A	3/15/2005	05BR0407 - 7	3/16/05
SY-PL2-603B	3/15/2005	05BR0407 - 8	3/16/05
SY-PL2-903B	3/15/2005	05BR0407 - 9	3/16/05
SY-PL2-115A	3/15/2005	05BR0407 - 10	3/16/05
SY-PL2-152A-F	3/15/2005	05BR0407 - 11	3/16/05
SY-PL2-152B-F	3/15/2005	05BR0407 - 12	3/16/05
SY-PL2-152C-F	3/15/2005	05BR0407 - 13	3/16/05
SY-PL2-601B-F	3/15/2005	05BR0407 - 14	3/16/05
SY-PL2-602A-F	3/15/2005	05BR0407 - 15	3/16/05
SY-PL2-602B-F	3/15/2005	05BR0407 - 16	3/16/05
SY-PL2-603A-F	3/15/2005	05BR0407 - 17	3/16/05
SY-PL2-603B-F	3/15/2005	05BR0407 - 18	3/16/05
SY-PL2-903B-F	3/15/2005	05BR0407 - 19	3/16/05
SY-PL2-115A-F	3/15/2005	05BR0407 - 20	3/16/05

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0407

ARI Client: The Boeing Company
ARI Project ID: HV67

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-152A	05BR0407 - 1	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152B	05BR0407 - 2	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152C	05BR0407 - 3	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-601B	05BR0407 - 4	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602A	05BR0407 - 5	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602B	05BR0407 - 6	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603A	05BR0407 - 7	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603B	05BR0407 - 8	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-903B	05BR0407 - 9	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-115A	05BR0407 - 10	3/21/05	3/24/05	05-0159	25.000	ng/L	U

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0407

ARI Client: The Boeing Company
ARI Project ID: HV67

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-152A-F	05BR0407 - 11	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152B-F	05BR0407 - 12	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152C-F	05BR0407 - 13	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-601B-F	05BR0407 - 14	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602A-F	05BR0407 - 15	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602B-F	05BR0407 - 16	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603A-F	05BR0407 - 17	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603B-F	05BR0407 - 18	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-903B-F	05BR0407 - 19	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-115A-F	05BR0407 - 20	3/21/05	3/24/05	05-0159	25.000	ng/L	U

BROOKS RAND LLC

DATA QUALIFIERS and their DEFINITIONS
(Effective 12/09/04)

B - Detected by the instrument, above MDL but less than the PQL (ML). Measured result is reported and considered an estimate.

E - An estimated value due to the presence of interferences. A full explanation will be presented in the case narrative.

H - Holding time and/or preservation requirements not met. Results are estimated.

J – Estimated value.

M -Duplicate precision (RPD) was not within acceptance criteria.

N - Spike recovery was not within acceptance criteria.

R - Rejected, unusable value. A full explanation will be presented in the QA Report.

U – Result below the method detection limit (MDL) and therefore analyte was not detected. Results reported at the MDL.

These qualifiers are based on those previously utilized by Brooks Rand, Ltd., those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18 and the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses; USEPA; July 1988. These supercede all previous qualifiers ever employed by BRL.

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0159
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0407
Project:	ARI004
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 24, 2005
Calibration Date:	Match 24, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.25.05

Tressa K. Pearson-Franks
Quality Assurance Associate

000125

Analytical Resources, Incorporated
Analytical Chemists and Consultants

April 4, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: HV86

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted fourteen water samples in good condition on March 16, 2005. The samples were received at cooler temperatures of 3.5°C, 4.0°C, 4.5°C and 5.0°C.

As requested, selected samples were analyzed for volatile organics, semivolatile organics, SIM PNA, PCBs, total and dissolved metals and various conventional parameters. Analysis for low level mercury was subcontracted to Brooks Rand LLC of Seattle, WA.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV86

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HV86	Turn-around Requested: STANDARD
ARI Client Company: EPI / BOEING	Phone: 425-395-6010
Client Contact: DOUG KUNKEL / JOSH BERNTHAL	
Client Project Name: PZDG-SOUTH YARD AREA	
Client Project #: 17505.0	Samplers: JB / TK

Page: 1 of 2

Date: 3/16/05

Ice Present?

No. of Coolers:

Cooler Temps: 3.5 | 4.0 | 4.5 | 5.0

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	NWTPH Dx	NWTPH Gx	TOC Alkalinity	Sulfide	Reactive Cyanide Nitrate Nitrite Sulfate	LL Hg DL	LL Hg Total	Metals Total	Metals Dissolved
SY-PLZ-110C	3/16/05	0830	WATER	5	X									X	X	
SY-PLZ-110C-F	3/16/05	0830	WATER	2									X			X
SY-PLZ-117A	3/16/05	0945	WATER	16	X	X	X	X	X	X	X	X		X	X	
SY-PLZ-117A-F	3/16/05	0945	WATER	2									X			X
SY-PLZ-112A	3/16/05	11 00	WATER	13	X	X	X	X	X					X	X	
SY-PLZ-112A-F	3/16/05	11 00	WATER	2									X			X
SY-PLZ-912A	3/16/05	0700	WATER	9	X			X	X					X	X	
SY-PLZ-912A-F	3/16/05	0700	WATER	2									X			X
SY-PLZ-112B	3/16/05	1250	WATER	5	X									X	X	
SY-PLZ-112B-F	3/16/05	1250	WATER	2									X			X

Comments/Special Instructions: CC Dan Michot

Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Printed Name: Josh Bernthal	Printed Name: Eric Branson	Printed Name:	Printed Name:
Company: EPI	Company: ARI	Company:	Company:
Date & Time: 3/16/05 1650	Date & Time: 3/16/05 - 1650	Date & Time:	Date & Time:

000002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HV86	Turn-around Requested: STANDARD
ARI Client Company: EPI/BOEING	Phone: 425-395-0010
Client Contact: DOUG KUNKEL / Josh Bernthal	
Client Project Name: P20G-SOUTH YARD AREA	
Client Project #: 17505	Samplers: JB/JK

Page: 2 of 2	
Date: 3/16/05	Ice Present?
No. of Coolers:	Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	VOCs	SVOCs	PCBs	NWTPH-D	NWTPH-G	Metals Total	Metals Dis	LL Hg Dis	LL Hg Total
SY-PL2-113A	3/16/05	1345	WATER	13	X	X	X	X	X	X			X
SY-PL2-113A-F	3/16/05	1345	WATER	2							X	X	
SY-PL2-116A	3/16/05	1450	WATER	13	X	X	X	X	X	X			X
SY-PL2-116A-F	3/16/05	1450	WATER	2							X	X	

Notes/Comments: LL Hg Total

Comments/Special Instructions: CC Machot

Relinquished by: (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by: (Signature)
Printed Name: Josh Bernthal	Printed Name: ERIC BRANSON	Printed Name:	Printed Name
Company: EPI	Company: ARI	Company:	Company:
Date & Time: 3/16/05-1650	Date & Time: 3/16/05-1650	Date & Time:	Date & Time:

000003

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV86

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV86
April 4, 2005

Volatile Organics by Method 8260B:

All samples were received with pH < 2.0 with the exception of sample **SY-PL2-110C** vial #2 which had pH 6-8. The samples were analyzed between 3/25/05 and 3/29/05 within the method recommended holding time.

The trip blank was made by ARI on 2/16/05, received on 3/16/05, and analyzed on 3/25/05.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: Samples **SY-PL2-112A** and **SY-PL2-912A** contained chloroethane and 1,1-dichloroethane at "ES" flag concentrations that saturated the detector. The sample also contained toluene at an "E" flag concentration. The samples were diluted and re-analyzed. Both runs are reported.

Sample **SY-PL2-113A** contained 1,1-dichloroethane and trichloroethene at "E" flag concentrations. The sample was diluted and re-analyzed. Both runs are reported.

There were no other anomalies associated with these samples.

Matrix Spike: A matrix spike and a matrix spike duplicate were performed in association with samples **SY-PL2-117A** and **SY-PL2-912A.** All percent recoveries and RPDs for the analytes of interest were within compliance. The 2-chloroethylvinylether MS/MSD percent recoveries are low in the MS/MSD associated with sample **SY-PL2-912A** due to the sample being run at a dilution. No corrective action was taken.

LCS/LCSD (s): 3/25/05 LCS/LCSD: The 2-chloroethylvinylether percent recoveries were low in the LCS/LCSD. As 2-chloroethylvinylether is not an analyte of interest, and the limits are considered advisory, no corrective action was taken. All other percent recoveries and RPDs for the analytes of interest were within compliance for this LCS/LCSD.

All percent recoveries and RPDs were in control for all other LCS/LCSDs.

Semivolatile Organics by Method 8270C:

The samples were extracted on 3/22/05 and analyzed on 3/24/05, 3/28/05 and 3/29/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control in the initial analysis of all samples. The surrogates were diluted out in the re-analysis of samples **SY-PL2-117A** and **SY-PL2-112A.**

Method Blank: The method blank was free of contamination.

Samples: Sample **SY-PL2-117A** contained 4-chloro-3-methylphenol at an "E" flag concentration. The sample was diluted 30X and re-analyzed. Both runs are reported.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV86
April 4, 2005

Sample **SY-PL2-112A** contained 2,4-dimethylphenol and 4-chloro-3-methylphenol at "E" flag concentrations. The sample was diluted 60X and re-analyzed. Both runs are reported.

There were no other anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The samples were extracted on 3/22/05 and analyzed on 3/24/05 and 3/28/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control in the initial analysis of all samples. The surrogates were diluted out in the re-analysis of samples **SY-PL2-117A** and **SY-PL2-112A**.

Method Blank: The method blank was free of contamination.

Samples: Samples **SY-PL2-117A** and **SY-PL2-112A** was analyzed at a 10X dilution based on the full list SVOA analysis and a large unknown peak that obscured the d8-naphthalene internal standard. The samples were reprocessed using d10-acenapthene as the internal standard. The samples were re-analyzed at a 100X dilution with all internal standards in control. Naphthalene has a raised reporting limit and has been "Y" flagged in the 10X dilution and 2-methylnaphthalene has a raised reporting limit and is "Y" flagged in the 100X dilution run of both samples due to large 4-chloro3-methylphenol concentrations.

There were no other anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The samples were extracted on 3/21/05 and were analyzed on 4/01/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

NWTPH-G

All samples were received with pH < 2.0. The samples were analyzed on 3/29/05 within the method recommended holding time.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV86
April 4, 2005

The trip blank was made by ARI on 3/09/05, received on 3/15/05, and was analyzed on 3/29/05.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

NWTPH-D

The samples were extracted on 3/21/05 and were analyzed on 3/22/05 and 3/23/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: Samples **SY-PL2-112A** and **SY-PL2-912A** contained diesel range hydrocarbons at "E" flag concentrations. The sample patterns did not match any current ARI hydrocarbon standard patterns. The samples were diluted 5X and re-analyzed. Both runs are reported.

There were no anomalies associated with these samples.

Matrix Spike: A batch matrix spike and a batch matrix spike duplicate were performed in association with sample **SY-PL2-603A.** All percent recoveries and RPDs for the analytes of interest were within compliance. A copy of the form III is included for your review.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Dissolved and Total Metals by Methods 6010 and 200.8

The samples were prepared on 3/22/05 and 3/23/05 and were analyzed between 3/28/05 and 3/29/05 within the method recommended holding times.

Method Blank(s): The method blanks were free of element contamination.

Samples: Samples **SY-PL2-110C** and **SY-PL2-110C-F** were received unpreserved. The samples were pH adjusted prior to sample preparation. No anomalies were encountered for these samples.

Matrix Spike: A matrix spike and a matrix duplicate were performed in association with samples **SY-PL2-110C** and **SY-PL2-110C-F.** All percent recoveries and RPDs were in control.

LCS/Blank Spike(s): All percent recoveries were within compliance.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: HV86
April 4, 2005

Conventional Parameters
The Redox Potential sample was analyzed on 3/16/05 within the method recommended 24 hour holding time.
Ammonia sample was analyzed on 3/22/05 within the method recommended 28 day holding time.
Nitrate, nitrite and NO2+NO3 sample was analyzed on 3/16/05 within the method recommended 48 hour holding time.
Sulfate sample was analyzed on 3/19/05 within the method recommended 28 day holding time.
Sulfide sample was analyzed on 3/17/05 within the method recommended 7 day holding time.
Total Organic Carbon sample was analyzed on 3/18/05 within the method recommended 28 day holding time.

Method Blank(s): All method blanks were free of element contamination.

Samples: Nitrate, Nitrite, NO2+NO3 samples **SY-PL2-602A** and **SY-PL2-603A** were diluted due to negative peaks in the initial analysis.

No other anomalies were encountered for these samples.

MS/MSD: All MS recoveries were in control.

LCS/SRM/Replicate: All recoveries were in control.

Low Level Mercury

Please refer to the Brooks Rand data package for mercury analysis.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Area
Project Number: 17505

ARI JOB NO: HV86

prepared
by

Analytical Resources, Inc.

VOLATILE ORGANICS 8260B

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HV86

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
032505MB	Method Blank	94.5%	93.3%	85.2%	97.4%	0
HV86LCS	Lab Control	105%	102%	103%	93.4%	0
HV86LCD	LCDuplicate	101%	101%	102%	94.4%	0
HV86A	SY-PL2-110C	114%	108%	94.2%	110%	0
032905MB	Method Blank	110%	96.7%	88.5%	96.2%	0
HV86LCS	Lab Control	104%	99.0%	94.3%	90.1%	0
HV86LCD	LCDuplicate	119%	102%	101%	93.9%	0
HV86B	SY-PL2-117A	120%	102%	93.2%	110%	0
HV86BMS	SY-PL2-117A	116%	96.0%	97.0%	87.2%	0
HV86BMSD	SY-PL2-117A	117%	105%	104%	98.4%	0
HV86C	SY-PL2-112A	125%	104%	110%	104%	0
HV86D	SY-PL2-912A	110%	104%	104%	104%	0
HV86E	SY-PL2-112B	119%	95.8%	90.5%	99.0%	0
HV86F	SY-PL2-113A	104%	98.8%	92.8%	104%	0
HV86G	SY-PL2-116A	118%	102%	92.2%	106%	0
HV86H	TRIP BLANK	108%	111%	90.2%	109%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water 5 mL

QC Report No: HV86

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
HV86C-DL	SY-PL2-112A	98.9%	88.1%	82.3%	94.2%	0
032905MB	Method Blank	98.4%	88.5%	83.3%	98.2%	0
HV86LCS	Lab Cntrl Sample	95.8%	90.5%	90.0%	92.2%	0
HV86LCSD	Lab Cntrl Sample Dp	95.0%	89.4%	90.0%	89.8%	0
HV86D-DL	SY-PL2-912A	98.4%	88.7%	83.5%	97.7%	0
HV86D-MS	SY-PL2-912A	95.8%	90.2%	88.9%	93.0%	0
HV86D-MSD	SY-PL2-912A	95.1%	89.2%	89.0%	92.9%	0
032805MB	Method Blank	94.7%	89.6%	85.8%	95.7%	0
HV86LCS	Lab Cntrl Sample	95.6%	89.6%	90.8%	94.0%	0
HV86LCSD	Lab Cntrl Sample Dp	96.8%	90.8%	89.5%	90.6%	0
HV86F-RE	SY-PL2-113A	96.7%	89.3%	84.2%	96.5%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(74-133)	(74-142)
(TOL) = Toluene-d8	(77-131)	(84-129)
(BFB) = Bromofluorobenzene	(79-127)	(77-122)
(DCB) = 1,2-Dichlorobenzene-d4	(84-132)	(85-135)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032505
METHOD BLANK

Lab Sample ID: MB-032505
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 10:50

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.5%
d8-Toluene	93.3%
Bromofluorobenzene	85.2%
d4-1,2-Dichlorobenzene	97.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-032805**
 METHOD BLANK

Lab Sample ID: MB-032805
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/28/05 13:20

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.7%
d8-Toluene	89.6%
Bromofluorobenzene	85.8%
d4-1,2-Dichlorobenzene	95.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032905
METHOD BLANK

Lab Sample ID: MB-032905
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 10:58

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	96.7%
Bromofluorobenzene	88.5%
d4-1,2-Dichlorobenzene	96.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: MB-032905
METHOD BLANK

Lab Sample ID: MB-032905
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/29/05 15:07

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.4%
d8-Toluene	88.5%
Bromofluorobenzene	83.3%
d4-1,2-Dichlorobenzene	98.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-110C
SAMPLE

Lab Sample ID: HV86A
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 17:38

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.6**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	**Ethylbenzene**	**0.2**	**0.2**
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	108%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	110%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 18:05

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**4.3**
75-00-3	**Chloroethane**	**0.2**	**0.4**
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.1**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**13**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**4.9**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**1.0**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**2.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	102%
Bromofluorobenzene	93.2%
d4-1,2-Dichlorobenzene	110%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-117A
MATRIX SPIKE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 13:21

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	116%
d8-Toluene	96.0%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	87.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-117A
MATRIX SPIKE DUPLICATE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 13:57

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-01-4	Vinyl Chloride	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	105%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	98.4%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 18:32

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**7.4**
75-00-3	**Chloroethane**	**0.2**	**320 ES**
75-09-2	**Methylene Chloride**	**0.3**	**0.3**
67-64-1	**Acetone**	**1.0**	**13**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**1.9**
75-34-3	**1,1-Dichloroethane**	**0.2**	**46 ES**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.8**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**15**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.6**
78-93-3	**2-Butanone**	**1.0**	**8.4**
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**1.3**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**2.6**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**1.0**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	**4-Methyl-2-Pentanone (MIBK)**	**1.0**	**1.3**
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**3.8**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**22 E**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	**Ethylbenzene**	**0.2**	**1.0**
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroe**	**0.2**	**2.2**
1330-20-7	**m,p-Xylene**	**0.4**	**3.8**
95-47-6	**o-Xylene**	**0.2**	**1.8**

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	104%
Bromofluorobenzene	110%
d4-1,2-Dichlorobenzene	104%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-112A**
Page 1 of 1 **REANALYSIS**

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/29/05 15:34

Sample Amount: 0.50 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	10	< 10 U
74-83-9	Bromomethane	10	< 10 U
75-01-4	Vinyl Chloride	10	< 10 U
75-00-3	**Chloroethane**	**10**	**590**
75-09-2	Methylene Chloride	20	< 20 U
67-64-1	Acetone	50	< 50 U
75-15-0	Carbon Disulfide	10	< 10 U
75-35-4	1,1-Dichloroethene	10	< 10 U
75-34-3	**1,1-Dichloroethane**	**10**	**66**
156-60-5	trans-1,2-Dichloroethene	10	< 10 U
156-59-2	**cis-1,2-Dichloroethene**	**10**	**12**
67-66-3	Chloroform	10	< 10 U
107-06-2	1,2-Dichloroethane	10	< 10 U
78-93-3	2-Butanone	50	< 50 U
71-55-6	1,1,1-Trichloroethane	10	< 10 U
56-23-5	Carbon Tetrachloride	10	< 10 U
108-05-4	Vinyl Acetate	50	< 50 U
75-27-4	Bromodichloromethane	10	< 10 U
78-87-5	1,2-Dichloropropane	10	< 10 U
10061-01-5	cis-1,3-Dichloropropene	10	< 10 U
79-01-6	Trichloroethene	10	< 10 U
124-48-1	Dibromochloromethane	10	< 10 U
79-00-5	1,1,2-Trichloroethane	10	< 10 U
71-43-2	Benzene	10	< 10 U
10061-02-6	trans-1,3-Dichloropropene	10	< 10 U
110-75-8	2-Chloroethylvinylether	50	< 50 U
75-25-2	Bromoform	10	< 10 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50	< 50 U
591-78-6	2-Hexanone	50	< 50 U
127-18-4	Tetrachloroethene	10	< 10 U
79-34-5	1,1,2,2-Tetrachloroethane	10	< 10 U
108-88-3	**Toluene**	**10**	**18**
108-90-7	Chlorobenzene	10	< 10 U
100-41-4	Ethylbenzene	10	< 10 U
100-42-5	Styrene	10	< 10 U
75-69-4	Trichlorofluoromethane	10	< 10 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	< 20 U
1330-20-7	m,p-Xylene	10	< 10 U
95-47-6	o-Xylene	10	< 10 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.9%
d8-Toluene	88.1%
Bromofluorobenzene	82.3%
d4-1,2-Dichlorobenzene	94.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-912A
SAMPLE

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 19:00

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**7.0**
75-00-3	**Chloroethane**	**0.2**	**300 ES**
75-09-2	**Methylene Chloride**	**0.3**	**0.3**
67-64-1	**Acetone**	**1.0**	**9.6**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**1.7**
75-34-3	**1,1-Dichloroethane**	**0.2**	**44 ES**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.8**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**13**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.6**
78-93-3	**2-Butanone**	**1.0**	**7.2**
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**1.3**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**2.6**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**1.1**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	**4-Methyl-2-Pentanone (MIBK)**	**1.0**	**1.1**
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**3.4**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**22 E**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	**Ethylbenzene**	**0.2**	**1.0**
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroe**	**0.2**	**2.3**
1330-20-7	**m,p-Xylene**	**0.4**	**3.7**
95-47-6	**o-Xylene**	**0.2**	**1.7**

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	104%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-912A**
Page 1 of 1 **REANALYSIS**

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/29/05 16:00

Sample Amount: 0.50 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	10	< 10 U
74-83-9	Bromomethane	10	< 10 U
75-01-4	Vinyl Chloride	10	< 10 U
75-00-3	**Chloroethane**	**10**	**620**
75-09-2	Methylene Chloride	20	< 20 U
67-64-1	Acetone	50	< 50 U
75-15-0	Carbon Disulfide	10	< 10 U
75-35-4	1,1-Dichloroethene	10	< 10 U
75-34-3	**1,1-Dichloroethane**	**10**	**67**
156-60-5	trans-1,2-Dichloroethene	10	< 10 U
156-59-2	**cis-1,2-Dichloroethene**	**10**	**13**
67-66-3	Chloroform	10	< 10 U
107-06-2	1,2-Dichloroethane	10	< 10 U
78-93-3	2-Butanone	50	< 50 U
71-55-6	1,1,1-Trichloroethane	10	< 10 U
56-23-5	Carbon Tetrachloride	10	< 10 U
108-05-4	Vinyl Acetate	50	< 50 U
75-27-4	Bromodichloromethane	10	< 10 U
78-87-5	1,2-Dichloropropane	10	< 10 U
10061-01-5	cis-1,3-Dichloropropene	10	< 10 U
79-01-6	Trichloroethene	10	< 10 U
124-48-1	Dibromochloromethane	10	< 10 U
79-00-5	1,1,2-Trichloroethane	10	< 10 U
71-43-2	Benzene	10	< 10 U
10061-02-6	trans-1,3-Dichloropropene	10	< 10 U
110-75-8	2-Chloroethylvinylether	50	< 50 U
75-25-2	Bromoform	10	< 10 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50	< 50 U
591-78-6	2-Hexanone	50	< 50 U
127-18-4	Tetrachloroethene	10	< 10 U
79-34-5	1,1,2,2-Tetrachloroethane	10	< 10 U
108-88-3	**Toluene**	**10**	**18**
108-90-7	Chlorobenzene	10	< 10 U
100-41-4	Ethylbenzene	10	< 10 U
100-42-5	Styrene	10	< 10 U
75-69-4	Trichlorofluoromethane	10	< 10 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	< 20 U
1330-20-7	m,p-Xylene	10	< 10 U
95-47-6	o-Xylene	10	< 10 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.4%
d8-Toluene	88.7%
Bromofluorobenzene	83.5%
d4-1,2-Dichlorobenzene	97.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-912A**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/29/05 16:26

Sample Amount: 0.50 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	10	---
74-83-9	Bromomethane	10	---
75-01-4	Vinyl Chloride	10	---
75-00-3	Chloroethane	10	---
75-09-2	Methylene Chloride	20	---
67-64-1	Acetone	50	---
75-15-0	Carbon Disulfide	10	---
75-35-4	1,1-Dichloroethene	10	---
75-34-3	1,1-Dichloroethane	10	---
156-60-5	trans-1,2-Dichloroethene	10	---
156-59-2	cis-1,2-Dichloroethene	10	---
67-66-3	Chloroform	10	---
107-06-2	1,2-Dichloroethane	10	---
78-93-3	2-Butanone	50	---
71-55-6	1,1,1-Trichloroethane	10	---
56-23-5	Carbon Tetrachloride	10	---
108-05-4	Vinyl Acetate	50	---
75-27-4	Bromodichloromethane	10	---
78-87-5	1,2-Dichloropropane	10	---
10061-01-5	cis-1,3-Dichloropropene	10	---
79-01-6	Trichloroethene	10	---
124-48-1	Dibromochloromethane	10	---
79-00-5	1,1,2-Trichloroethane	10	---
71-43-2	Benzene	10	---
10061-02-6	trans-1,3-Dichloropropene	10	---
110-75-8	2-Chloroethylvinylether	50	---
75-25-2	Bromoform	10	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	50	---
591-78-6	2-Hexanone	50	---
127-18-4	Tetrachloroethene	10	---
79-34-5	1,1,2,2-Tetrachloroethane	10	---
108-88-3	Toluene	10	---
108-90-7	Chlorobenzene	10	---
100-41-4	Ethylbenzene	10	---
100-42-5	Styrene	10	---
75-69-4	Trichlorofluoromethane	10	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	---
1330-20-7	m,p-Xylene	10	---
95-47-6	o-Xylene	10	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.8%
d8-Toluene	90.2%
Bromofluorobenzene	88.9%
d4-1,2-Dichlorobenzene	93.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-912A**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/29/05 16:52

Sample Amount: 0.50 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	10	---
74-83-9	Bromomethane	10	---
75-01-4	Vinyl Chloride	10	---
75-00-3	Chloroethane	10	---
75-09-2	Methylene Chloride	20	---
67-64-1	Acetone	50	---
75-15-0	Carbon Disulfide	10	---
75-35-4	1,1-Dichloroethene	10	---
75-34-3	1,1-Dichloroethane	10	---
156-60-5	trans-1,2-Dichloroethene	10	---
156-59-2	cis-1,2-Dichloroethene	10	---
67-66-3	Chloroform	10	---
107-06-2	1,2-Dichloroethane	10	---
78-93-3	2-Butanone	50	---
71-55-6	1,1,1-Trichloroethane	10	---
56-23-5	Carbon Tetrachloride	10	---
108-05-4	Vinyl Acetate	50	---
75-27-4	Bromodichloromethane	10	---
78-87-5	1,2-Dichloropropane	10	---
10061-01-5	cis-1,3-Dichloropropene	10	---
79-01-6	Trichloroethene	10	---
124-48-1	Dibromochloromethane	10	---
79-00-5	1,1,2-Trichloroethane	10	---
71-43-2	Benzene	10	---
10061-02-6	trans-1,3-Dichloropropene	10	---
110-75-8	2-Chloroethylvinylether	50	---
75-25-2	Bromoform	10	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	50	---
591-78-6	2-Hexanone	50	---
127-18-4	Tetrachloroethene	10	---
79-34-5	1,1,2,2-Tetrachloroethane	10	---
108-88-3	Toluene	10	---
108-90-7	Chlorobenzene	10	---
100-41-4	Ethylbenzene	10	---
100-42-5	Styrene	10	---
75-69-4	Trichlorofluoromethane	10	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	---
1330-20-7	m,p-Xylene	10	---
95-47-6	o-Xylene	10	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.1%
d8-Toluene	89.2%
Bromofluorobenzene	89.0%
d4-1,2-Dichlorobenzene	92.9%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-112B
SAMPLE

Lab Sample ID: HV86E
LIMS ID: 05-5285
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 11:35

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	95.8%
Bromofluorobenzene	90.5%
d4-1,2-Dichlorobenzene	99.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 19:54

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**5.3**
75-00-3	**Chloroethane**	**0.2**	**0.5**
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.1**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**1.3**
75-34-3	**1,1-Dichloroethane**	**0.2**	**30 E**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**3.9**
67-66-3	**Chloroform**	**0.2**	**0.2**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**0.3**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**17 E**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**5.3**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**1.2**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroe**	**0.2**	**0.3**
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	98.8%
Bromofluorobenzene	92.8%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-113A**
Page 1 of 1 **REANALYSIS**

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/28/05 16:51

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**5.1**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	**1,1-Dichloroethene**	**1.0**	**1.1**
75-34-3	**1,1-Dichloroethane**	**1.0**	**32**
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**3.7**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**13**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	**Benzene**	**1.0**	**4.6**
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.7%
d8-Toluene	89.3%
Bromofluorobenzene	84.2%
d4-1,2-Dichlorobenzene	96.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 20:21

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**2.8**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.6**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**0.6**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.5**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	118%
d8-Toluene	102%
Bromofluorobenzene	92.2%
d4-1,2-Dichlorobenzene	106%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HV86H
LIMS ID: 05-5288
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area 17505.0
Date Sampled: 02/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 17:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	111%
Bromofluorobenzene	90.2%
d4-1,2-Dichlorobenzene	109%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-117A MS/MSD

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area 17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst MS: FINN3/PAB
MSD: FINN3/PAB
Date Analyzed MS: 03/29/05 13:21
MSD: 03/29/05 13:57

Sample Amount MS: 20.0 mL
MSD: 20.0 mL
Purge Volume MS: 20.0 mL
MSD: 20.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 0.2	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
Bromomethane	< 0.2	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
Vinyl Chloride	4.3	6.8	4.0	62.5%	7.8	4.0	87.5%	13.7%
Chloroethane	0.4	4.0	4.0	90.0%	4.5	4.0	102%	11.8%
Methylene Chloride	< 0.3	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
Acetone	3.1	14.1	20.0	55.0%	17.6	20.0	72.5%	22.1%
Carbon Disulfide	< 0.2	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
1,1-Dichloroethene	< 0.2	4.0	4.0	100%	4.2	4.0	105%	4.9%
1,1-Dichloroethane	12.8	17.3	4.0	112%	17.2	4.0	110%	0.6%
trans-1,2-Dichloroethene	< 0.2	4.2	4.0	105%	4.4	4.0	110%	4.7%
cis-1,2-Dichloroethene	4.9	9.0	4.0	102%	9.8	4.0	122%	8.5%
Chloroform	< 0.2	4.3	4.0	108%	4.4	4.0	110%	2.3%
1,2-Dichloroethane	< 0.2	4.0	4.0	100%	4.5	4.0	112%	11.8%
2-Butanone	< 1.0	20.3	20.0	102%	18.5	20.0	92.5%	9.3%
1,1,1-Trichloroethane	1.0	5.5	4.0	112%	5.5	4.0	112%	0.0%
Carbon Tetrachloride	< 0.2	3.5	4.0	87.5%	3.9	4.0	97.5%	10.8%
Vinyl Acetate	< 0.2	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Bromodichloromethane	< 0.2	3.3	4.0	82.5%	3.6	4.0	90.0%	8.7%
1,2-Dichloropropane	< 0.2	3.0	4.0	75.0%	4.0	4.0	100%	28.6%
cis-1,3-Dichloropropene	< 0.2	3.4	4.0	85.0%	3.8	4.0	95.0%	11.1%
Trichloroethene	2.4	5.9	4.0	87.5%	6.4	4.0	100%	8.1%
Dibromochloromethane	< 0.2	3.5	4.0	87.5%	3.9	4.0	97.5%	10.8%
1,1,2-Trichloroethane	< 0.2	3.1	4.0	77.5%	3.6	4.0	90.0%	14.9%
Benzene	< 0.2	4.1	4.0	102%	4.6	4.0	115%	11.5%
trans-1,3-Dichloropropene	< 0.2	3.4	4.0	85.0%	3.8	4.0	95.0%	11.1%
2-Chloroethylvinylether	< 0.5	< 0.5	4.0	NA	< 0.5	4.0	NA	NA
Bromoform	< 0.2	3.0	4.0	75.0%	3.7	4.0	92.5%	20.9%
4-Methyl-2-Pentanone (MIBK)	< 1.0	16.3	20.0	81.5%	18.9	20.0	94.5%	14.8%
2-Hexanone	< 1.0	20.3	20.0	102%	21.2	20.0	106%	4.3%
Tetrachloroethene	< 0.2	4.1	4.0	102%	4.3	4.0	108%	4.8%
1,1,2,2-Tetrachloroethane	< 0.2	3.6	4.0	90.0%	3.9	4.0	97.5%	8.0%
Toluene	< 0.2	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
Chlorobenzene	< 0.2	3.8	4.0	95.0%	4.2	4.0	105%	10.0%
Ethylbenzene	< 0.2	4.5	4.0	112%	4.7	4.0	118%	4.3%
Styrene	< 0.2	3.0	4.0	75.0%	2.6	4.0	65.0%	14.3%
Trichlorofluoromethane	< 0.2	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1,2-Trichloro-1,2,2-trifl	< 0.2	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
m,p-Xylene	< 0.4	8.7	8.0	109%	8.8	8.0	110%	1.1%
o-Xylene	< 0.2	3.4	4.0	85.0%	3.4	4.0	85.0%	0.0%

Results reported in µg/L
NA-No recovery due to high concentration of analyte in original sample, or calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-912A**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst MS: NT3/PAB
MSD: NT3/PAB
Date Analyzed MS: 03/29/05 16:26
MSD: 03/29/05 16:52

Sample Amount MS: 0.50 mL
MSD: 0.50 mL
Purge Volume MS: 5.0 mL
MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.0	394	500	78.8%	325	500	65.0%	19.2%
Bromomethane	< 1.0	429	500	85.8%	384	500	76.8%	11.1%
Vinyl Chloride	7.0	541	500	107%	430	500	84.6%	22.9%
Chloroethane	304	1050	500	149%	1010	500	141%	3.9%
Methylene Chloride	< 2.0	519	500	104%	440	500	88.0%	16.5%
Acetone	9.6	1110	2500	44.0%	1540	2500	61.2%	32.5%
Carbon Disulfide	< 1.0	541	500	108%	513	500	103%	5.3%
1,1-Dichloroethene	1.7	477	500	95.1%	392	500	78.1%	19.6%
1,1-Dichloroethane	44.3	534	500	97.9%	470	500	85.1%	12.7%
trans-1,2-Dichloroethene	< 1.0	493	500	98.6%	418	500	83.6%	16.5%
cis-1,2-Dichloroethene	13.2	511	500	99.6%	438	500	85.0%	15.4%
Chloroform	< 1.0	484	500	96.8%	415	500	83.0%	15.4%
1,2-Dichloroethane	< 1.0	469	500	93.8%	403	500	80.6%	15.1%
2-Butanone	7.2	1430	2500	56.9%	1910	2500	76.1%	28.7%
1,1,1-Trichloroethane	1.3	456	500	90.9%	383	500	76.3%	17.4%
Carbon Tetrachloride	< 1.0	511	500	102%	410	500	82.0%	21.9%
Vinyl Acetate	< 5.0	405	500	81.0%	390	500	78.0%	3.8%
Bromodichloromethane	< 1.0	479	500	95.8%	398	500	79.6%	18.5%
1,2-Dichloropropane	< 1.0	474	500	94.8%	406	500	81.2%	15.5%
cis-1,3-Dichloropropene	< 1.0	438	500	87.6%	373	500	74.6%	16.0%
Trichloroethene	2.6	473	500	94.1%	395	500	78.5%	18.0%
Dibromochloromethane	< 1.0	457	500	91.4%	389	500	77.8%	16.1%
1,1,2-Trichloroethane	< 1.0	488	500	97.6%	416	500	83.2%	15.9%
Benzene	1.1	502	500	100%	423	500	84.4%	17.1%
trans-1,3-Dichloropropene	< 1.0	437	500	87.4%	371	500	74.2%	16.3%
2-Chloroethylvinylether	< 5.0	72.3	500	14.5%	58.8	500	11.8%	20.6%
Bromoform	< 1.0	486	500	97.2%	416	500	83.2%	15.5%
4-Methyl-2-Pentanone (MIBK)	< 5.0	1750	2500	70.0%	2360	2500	94.4%	29.7%
2-Hexanone	< 5.0	1790	2500	71.6%	2430	2500	97.2%	30.3%
Tetrachloroethene	3.4	462	500	91.7%	384	500	76.1%	18.4%
1,1,2,2-Tetrachloroethane	< 1.0	482	500	96.4%	416	500	83.2%	14.7%
Toluene	22.2	493	500	94.2%	418	500	79.2%	16.5%
Chlorobenzene	< 1.0	500	500	100%	418	500	83.6%	17.9%
Ethylbenzene	1.0	468	500	93.4%	387	500	77.2%	18.9%
Styrene	< 1.0	435	500	87.0%	360	500	72.0%	18.9%
Trichlorofluoromethane	< 1.0	474	500	94.8%	385	500	77.0%	20.7%
1,1,2-Trichloro-1,2,2-trifl	2.3	502	500	99.9%	446	500	88.7%	11.8%
m,p-Xylene	3.7	934	1000	93.0%	782	1000	77.8%	17.7%
o-Xylene	1.7	438	500	87.3%	358	500	71.3%	20.1%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032505**
LCS/LCSD

Lab Sample ID: LCS-032505
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/25/05 09:50
LCSD: 03/25/05 10:22

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.1	4.0	77.5%	3.1	4.0	77.5%	0.0%
Bromomethane	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
Vinyl Chloride	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Chloroethane	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Methylene Chloride	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Acetone	13.6	20.0	68.0%	12.9	20.0	64.5%	5.3%
Carbon Disulfide	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
1,1-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
1,1-Dichloroethane	4.1	4.0	102%	4.2	4.0	105%	2.4%
trans-1,2-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
cis-1,2-Dichloroethene	4.0	4.0	100%	3.7	4.0	92.5%	7.8%
Chloroform	4.1	4.0	102%	4.0	4.0	100%	2.5%
1,2-Dichloroethane	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
2-Butanone	14.7	20.0	73.5%	13.9	20.0	69.5%	5.6%
1,1,1-Trichloroethane	4.2	4.0	105%	4.5	4.0	112%	6.9%
Carbon Tetrachloride	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Vinyl Acetate	3.5	4.0	87.5%	3.4	4.0	85.0%	2.9%
Bromodichloromethane	3.2	4.0	80.0%	3.2	4.0	80.0%	0.0%
1,2-Dichloropropane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
cis-1,3-Dichloropropene	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
Trichloroethene	3.8	4.0	95.0%	4.0	4.0	100%	5.1%
Dibromochloromethane	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.1	4.0	77.5%	3.2%
Benzene	4.0	4.0	100%	4.3	4.0	108%	7.2%
trans-1,3-Dichloropropene	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
2-Chloroethylvinylether	1.9	4.0	47.5%	1.8	4.0	45.0%	5.4%
Bromoform	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
4-Methyl-2-Pentanone (MIBK)	15.1	20.0	75.5%	14.5	20.0	72.5%	4.1%
2-Hexanone	17.6	20.0	88.0%	17.0	20.0	85.0%	3.5%
Tetrachloroethene	4.5	4.0	112%	4.7	4.0	118%	4.3%
1,1,2,2-Tetrachloroethane	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Toluene	4.0	4.0	100%	4.1	4.0	102%	2.5%
Chlorobenzene	4.2	4.0	105%	4.3	4.0	108%	2.4%
Ethylbenzene	4.8	4.0	120%	5.0	4.0	125%	4.1%
Styrene	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Trichlorofluoromethane	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,1,2-Trichloro-1,2,2-trifl	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
m,p-Xylene	10.2	8.0	128%	10.0	8.0	125%	2.0%
o-Xylene	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032505**
 LCS/LCSD

Lab Sample ID: LCS-032505
LIMS ID: 05-5281
Matrix: Water
Date Analyzed: 03/25/05 09:50
LCSD: 03/25/05 10:22

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	105%	101%
d8-Toluene	102%	101%
Bromofluorobenzene	103%	102%
d4-1,2-Dichlorobenzene	93.4%	94.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032805**
 LCS/LCSD

Lab Sample ID: LCS-032805
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT3/PAB
LCSD: NT3/PAB
Date Analyzed LCS: 03/28/05 12:27
LCSD: 03/28/05 12:54

Sample Amount LCS: 5.00 mL
LCSD: 5.00 mL
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	40.0	50.0	80.0%	37.0	50.0	74.0%	7.8%
Bromomethane	44.8	50.0	89.6%	41.7	50.0	83.4%	7.2%
Vinyl Chloride	52.8	50.0	106%	50.1	50.0	100%	5.2%
Chloroethane	48.1	50.0	96.2%	44.6	50.0	89.2%	7.6%
Methylene Chloride	51.0	50.0	102%	47.4	50.0	94.8%	7.3%
Acetone	225	250	90.0%	209	250	83.6%	7.4%
Carbon Disulfide	57.8	50.0	116%	54.7	50.0	109%	5.5%
1,1-Dichloroethene	49.6	50.0	99.2%	44.4	50.0	88.8%	11.1%
1,1-Dichloroethane	47.1	50.0	94.2%	44.1	50.0	88.2%	6.6%
trans-1,2-Dichloroethene	49.9	50.0	99.8%	46.4	50.0	92.8%	7.3%
cis-1,2-Dichloroethene	50.7	50.0	101%	46.2	50.0	92.4%	9.3%
Chloroform	47.6	50.0	95.2%	44.1	50.0	88.2%	7.6%
1,2-Dichloroethane	46.3	50.0	92.6%	42.3	50.0	84.6%	9.0%
2-Butanone	215	250	86.0%	204	250	81.6%	5.3%
1,1,1-Trichloroethane	46.0	50.0	92.0%	43.6	50.0	87.2%	5.4%
Carbon Tetrachloride	57.2	50.0	114%	52.0	50.0	104%	9.5%
Vinyl Acetate	44.2	50.0	88.4%	41.8	50.0	83.6%	5.6%
Bromodichloromethane	47.6	50.0	95.2%	43.8	50.0	87.6%	8.3%
1,2-Dichloropropane	47.4	50.0	94.8%	43.7	50.0	87.4%	8.1%
cis-1,3-Dichloropropene	45.1	50.0	90.2%	41.3	50.0	82.6%	8.8%
Trichloroethene	47.8	50.0	95.6%	43.8	50.0	87.6%	8.7%
Dibromochloromethane	47.7	50.0	95.4%	43.2	50.0	86.4%	9.9%
1,1,2-Trichloroethane	48.0	50.0	96.0%	43.8	50.0	87.6%	9.2%
Benzene	49.1	50.0	98.2%	45.5	50.0	91.0%	7.6%
trans-1,3-Dichloropropene	44.7	50.0	89.4%	41.3	50.0	82.6%	7.9%
2-Chloroethylvinylether	34.9	50.0	69.8%	32.7	50.0	65.4%	6.5%
Bromoform	51.6	50.0	103%	45.7	50.0	91.4%	12.1%
4-Methyl-2-Pentanone (MIBK)	214	250	85.6%	203	250	81.2%	5.3%
2-Hexanone	208	250	83.2%	196	250	78.4%	5.9%
Tetrachloroethene	47.3	50.0	94.6%	43.6	50.0	87.2%	8.1%
1,1,2,2-Tetrachloroethane	49.1	50.0	98.2%	44.3	50.0	88.6%	10.3%
Toluene	47.4	50.0	94.8%	43.4	50.0	86.8%	8.8%
Chlorobenzene	48.7	50.0	97.4%	44.8	50.0	89.6%	8.3%
Ethylbenzene	46.7	50.0	93.4%	42.2	50.0	84.4%	10.1%
Styrene	44.3	50.0	88.6%	39.8	50.0	79.6%	10.7%
Trichlorofluoromethane	49.4	50.0	98.8%	46.6	50.0	93.2%	5.8%
1,1,2-Trichloro-1,2,2-trifl	53.8	50.0	108%	51.0	50.0	102%	5.3%
m,p-Xylene	94.5	100	94.5%	85.7	100	85.7%	9.8%
o-Xylene	44.7	50.0	89.4%	40.5	50.0	81.0%	9.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032805**
 LCS/LCSD

Lab Sample ID: LCS-032805 QC Report No: HV86-The Boeing Company
LIMS ID: 05-5286 Project: P2DG-South Yard Area
Matrix: Water 17505.0
Date Analyzed: 03/28/05 12:27 Purge Volume: 5.0 mL
LCSD: 03/28/05 12:54 LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	95.6%	96.8%
d8-Toluene	89.6%	90.8%
Bromofluorobenzene	90.8%	89.5%
d4-1,2-Dichlorobenzene	94.0%	90.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: LCS-032905
LCS/LCSD

Lab Sample ID: LCS-032905
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN3/PAB
LCSD: FINN3/PAB
Date Analyzed LCS: 03/29/05 09:54
LCSD: 03/29/05 10:30

Sample Amount LCS: 20.0 mL
LCSD: 20.0 mL
Purge Volume LCS: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
Bromomethane	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
Vinyl Chloride	4.1	4.0	102%	4.0	4.0	100%	2.5%
Chloroethane	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
Methylene Chloride	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
Acetone	16.3	20.0	81.5%	16.0	20.0	80.0%	1.9%
Carbon Disulfide	4.1	4.0	102%	4.3	4.0	108%	4.8%
1,1-Dichloroethene	4.1	4.0	102%	4.2	4.0	105%	2.4%
1,1-Dichloroethane	4.4	4.0	110%	4.6	4.0	115%	4.4%
trans-1,2-Dichloroethene	4.0	4.0	100%	4.0	4.0	100%	0.0%
cis-1,2-Dichloroethene	3.9	4.0	97.5%	4.1	4.0	102%	5.0%
Chloroform	4.1	4.0	102%	4.4	4.0	110%	7.1%
1,2-Dichloroethane	3.8	4.0	95.0%	4.2	4.0	105%	10.0%
2-Butanone	18.2	20.0	91.0%	19.3	20.0	96.5%	5.9%
1,1,1-Trichloroethane	4.2	4.0	105%	4.5	4.0	112%	6.9%
Carbon Tetrachloride	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
Vinyl Acetate	3.9	4.0	97.5%	4.4	4.0	110%	12.0%
Bromodichloromethane	3.3	4.0	82.5%	3.6	4.0	90.0%	8.7%
1,2-Dichloropropane	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
cis-1,3-Dichloropropene	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
Trichloroethene	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Dibromochloromethane	3.4	4.0	85.0%	3.9	4.0	97.5%	13.7%
1,1,2-Trichloroethane	3.1	4.0	77.5%	3.6	4.0	90.0%	14.9%
Benzene	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
trans-1,3-Dichloropropene	3.6	4.0	90.0%	4.0	4.0	100%	10.5%
2-Chloroethylvinylether	2.0	4.0	50.0%	2.2	4.0	55.0%	9.5%
Bromoform	3.4	4.0	85.0%	3.7	4.0	92.5%	8.5%
4-Methyl-2-Pentanone (MIBK)	16.9	20.0	84.5%	19.3	20.0	96.5%	13.3%
2-Hexanone	19.1	20.0	95.5%	21.5	20.0	108%	11.8%
Tetrachloroethene	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
1,1,2,2-Tetrachloroethane	3.6	4.0	90.0%	4.1	4.0	102%	13.0%
Toluene	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
Chlorobenzene	3.8	4.0	95.0%	4.1	4.0	102%	7.6%
Ethylbenzene	4.4	4.0	110%	4.7	4.0	118%	6.6%
Styrene	4.1	4.0	102%	3.8	4.0	95.0%	7.6%
Trichloroflucromethane	4.3	4.0	108%	4.4	4.0	110%	2.3%
1,1,2-Trichloro-1,2,2-trifl	4.1	4.0	102%	4.2	4.0	105%	2.4%
m,p-Xylene	8.6	8.0	108%	9.2	8.0	115%	6.7%
o-Xylene	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032905**
 LCS/LCSD

Lab Sample ID: LCS-032905
LIMS ID: 05-5282
Matrix: Water
Date Analyzed: 03/29/05 09:54
LCSD: 03/29/05 10:30

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	104%	119%
d8-Toluene	99.0%	102%
Bromofluorobenzene	94.3%	101%
d4-1,2-Dichlorobenzene	90.1%	93.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032905**
 LCS/LCSD

Lab Sample ID: LCS-032905
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT3/PAB
LCSD: NT3/PAB
Date Analyzed LCS: 03/29/05 13:48
LCSD: 03/29/05 14:14

Sample Amount LCS: 5.00 mL
LCSD: 5.00 mL
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	37.7	50.0	75.4%	40.0	50.0	80.0%	5.9%
Bromomethane	41.6	50.0	83.2%	45.6	50 0	91.2%	9.2%
Vinyl Chloride	50.0	50.0	100%	51.9	50.0	104%	3.7%
Chloroethane	45.0	50.0	90.0%	49.1	50.0	98.2%	8.7%
Methylene Chloride	48.1	50.0	96.2%	51.1	50.0	102%	6.0%
Acetone	143	250	57.2%	153	250	61.2%	6.8%
Carbon Disulfide	53.3	50.0	107%	57.2	50.0	114%	7.1%
1,1-Dichloroethene	45.4	50.0	90.8%	49.6	50.0	99.2%	8.8%
1,1-Dichloroethane	45.3	50.0	90.6%	48 1	50.0	96.2%	6.0%
trans-1,2-Dichloroethene	47.2	50.0	94.4%	49 6	50.0	99.2%	5.0%
cis-1,2-Dichloroethene	47.1	50.0	94.2%	50.2	50.0	100%	6.4%
Chloroform	45.1	50.0	90.2%	48.7	50.0	97.4%	7.7%
1,2-Dichloroethane	44.0	50.0	88.0%	46.6	50.0	93.2%	5.7%
2-Butanone	189	250	75.6%	196	250	78.4%	3.6%
1,1,1-Trichloroethane	42.9	50.0	85 8%	45.9	50.0	91.8%	6.8%
Carbon Tetrachloride	48.8	50.0	97.6%	50.4	50.0	101%	3.2%
Vinyl Acetate	41.1	50.0	82 2%	42.2	50.0	84.4%	2.6%
Bromodichloromethane	44.1	50.0	88.2%	46.6	50.0	93.2%	5.5%
1,2-Dichloropropane	45.3	50.0	90.6%	47.3	50.0	94.6%	4.3%
cis-1,3-Dichloropropene	41.3	50.0	82.6%	44.3	50.0	88.6%	7.0%
Trichloroethene	44.6	50.0	89.2%	46.9	50.0	93.8%	5.0%
Dibromochloromethane	43.8	50.0	87.6%	45.8	50.0	91.6%	4.5%
1,1,2-Trichloroethane	45.6	50.0	91.2%	47.5	50.0	95.0%	4 1%
Benzene	46.5	50.0	93.0%	49.2	50.0	98.4%	5.6%
trans-1,3-Dichloropropene	41.1	50.0	82.2%	43.5	50.0	87.0%	5.7%
2-Chloroethylvinylether	29.6	50.0	59 2%	31.6	50.0	63.2%	6.5%
Bromoform	45.5	50.0	91.0%	46.9	50.0	93.8%	3.0%
4-Methyl-2-Pentanone (MIBK)	235	250	94.0%	240	250	96.0%	2.1%
2-Hexanone	236	250	94.4%	245	250	98.0%	3.7%
Tetrachloroethene	44.6	50.0	89.2%	47.4	50.0	94.8%	6.1%
1,1,2,2-Tetrachloroethane	45.5	50.0	91.0%	46.3	50.0	92.6%	1.7%
Toluene	44.1	50.0	88.2%	47.5	50.0	95.0%	7.4%
Chlorobenzene	46.5	50.0	93.0%	49.1	50.0	98.2%	5.4%
Ethylbenzene	43.6	50.0	87.2%	46.9	50.0	93.8%	7.3%
Styrene	40.9	50.0	81 8%	43.3	50.0	86.6%	5 7%
Trichlorofluoromethane	46.2	50.0	92.4%	48.2	50.0	96.4%	4.2%
1,1,2-Trichloro-1,2,2-trif	49.1	50.0	98.2%	53.4	50.0	107%	8.4%
m,p-Xylene	88.7	100	88.7%	95.3	100	95.3%	7.2%
o-Xylene	40.8	50.0	81.6%	42.9	50.0	85.8%	5.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-032905**
 LCS/LCSD

Lab Sample ID: LCS-032905
LIMS ID: 05-5284
Matrix: Water
Date Analyzed: 03/29/05 13:48
LCSD: 03/29/05 14:14

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Purge Volume: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	95.8%	95.0%
d8-Toluene	90.5%	89.4%
Bromofluorobenzene	90.0%	90.0%
d4-1,2-Dichlorobenzene	92.2%	89.8%

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-032205	78.0%	72.4%	83.2%	68.0%	77.9%	72.3%	81.1%	77.9%	0
LCS-032205	77.2%	73.6%	82.0%	68.0%	76.0%	73.3%	81.9%	74.9%	0
LCSD-032205	75.6%	71.2%	78.0%	65.6%	74.4%	71.2%	78.7%	73.3%	0
SY-PL2-117A	72.4%	64.8%	49.6%	58.8%	68.3%	61.1%	77.9%	70.4%	0
SY-PL2-117A DL	D	D	D	D	D	D	D	D	0
SY-PL2-112A	76.0%	69.2%	56.8%	61.2%	69.9%	67.7%	80.8%	73.1%	0
SY-PL2-112A DL	D	D	D	D	D	D	D	D	0
SY-PL2-113A	71.6%	66.8%	71.6%	63.2%	62.1%	62.7%	81.3%	69.3%	0
SY-PL2-116A	62.0%	59.2%	78.0%	53.6%	54.9%	54.7%	76.5%	61.1%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-5282 to 05-5287

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-032205
METHOD BLANK

Lab Sample ID: MB-032205
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 11:33
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-032205
METHOD BLANK

Lab Sample ID: MB-032205
LIMS ID: 05-5282
Matrix: Water
Date Analyzed: 03/24/05 11:33

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	72.4%
d14-p-Terphenyl	83.2%	d4-1,2-Dichlorobenzene	68.0%
d5-Phenol	77.9%	2-Fluorophenol	72.3%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	77.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix. Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 17:04
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**1.0**	**3.2**
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	**2-Methylphenol**	**1.0**	**3.6**
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	**4-Methylphenol**	**1.0**	**32**
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	**2,4-Dimethylphenol**	**1.0**	**77**
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	**4-Chloro-3-methylphenol**	**5.0**	**1,000 E**
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Date Analyzed: 03/24/05 17:04

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.4%	2-Fluorobiphenyl	64.8%
d14-p-Terphenyl	49.6%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	68.3%	2-Fluorophenol	61.1%
2,4,6-Tribromophenol	77.9%	d4-2-Chlorophenol	70.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
DILUTION

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/28/05 21:17
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 30.0

CAS Number	Analyte	RL	Result
108-95-2	Phenol	30	< 30 U
111-44-4	Bis-(2-Chloroethyl) Ether	30	< 30 U
95-57-8	2-Chlorophenol	30	< 30 U
541-73-1	1,3-Dichlorobenzene	30	< 30 U
106-46-7	1,4-Dichlorobenzene	30	< 30 U
100-51-6	Benzyl Alcohol	150	< 150 U
95-50-1	1,2-Dichlorobenzene	30	< 30 U
95-48-7	2-Methylphenol	30	< 30 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	30	< 30 U
106-44-5	4-Methylphenol	30	< 30 U
621-64-7	N-Nitroso-Di-N-Propylamine	150	< 150 U
67-72-1	Hexachloroethane	30	< 30 U
98-95-3	Nitrobenzene	30	< 30 U
78-59-1	Isophorone	30	< 30 U
88-75-5	2-Nitrophenol	150	< 150 U
105-67-9	**2,4-Dimethylphenol**	**30**	**70**
65-85-0	Benzoic Acid	300	< 300 U
111-91-1	bis(2-Chloroethoxy) Methane	30	< 30 U
120-83-2	2,4-Dichlorophenol	150	< 150 U
120-82-1	1,2,4-Trichlorobenzene	30	< 30 U
91-20-3	Naphthalene	30	< 30 U
106-47-8	4-Chloroaniline	150	< 150 U
87-68-3	Hexachlorobutadiene	30	< 30 U
59-50-7	**4-Chloro-3-methylphenol**	**150**	**1,600**
91-57-6	2-Methylnaphthalene	30	< 30 U
77-47-4	Hexachlorocyclopentadiene	150	< 150 U
88-06-2	2,4,6-Trichlorophenol	150	< 150 U
95-95-4	2,4,5-Trichlorophenol	150	< 150 U
91-58-7	2-Chloronaphthalene	30	< 30 U
88-74-4	2-Nitroaniline	150	< 150 U
131-11-3	Dimethylphthalate	30	< 30 U
208-96-8	Acenaphthylene	30	< 30 U
99-09-2	3-Nitroaniline	150	< 150 U
83-32-9	Acenaphthene	30	< 30 U
51-28-5	2,4-Dinitrophenol	300	< 300 U
100-02-7	4-Nitrophenol	150	< 150 U
132-64-9	Dibenzofuran	30	< 30 U
606-20-2	2,6-Dinitrotoluene	150	< 150 U
121-14-2	2,4-Dinitrotoluene	150	< 150 U
84-66-2	Diethylphthalate	30	< 30 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
DILUTION

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Date Analyzed: 03/28/05 21:17

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	30	< 30 U
86-73-7	Fluorene	30	< 30 U
100-01-6	4-Nitroaniline	150	< 150 U
534-52-1	4,6-Dinitro-2-Methylphenol	300	< 300 U
86-30-6	N-Nitrosodiphenylamine	30	< 30 U
101-55-3	4-Bromophenyl-phenylether	30	< 30 U
118-74-1	Hexachlorobenzene	30	< 30 U
87-86-5	Pentachlorophenol	150	< 150 U
85-01-8	Phenanthrene	30	< 30 U
86-74-8	Carbazole	30	< 30 U
120-12-7	Anthracene	30	< 30 U
84-74-2	Di-n-Butylphthalate	30	< 30 U
206-44-0	Fluoranthene	30	< 30 U
129-00-0	Pyrene	30	< 30 U
85-68-7	Butylbenzylphthalate	30	< 30 U
91-94-1	3,3'-Dichlorobenzidine	150	< 150 U
56-55-3	Benzo(a)anthracene	30	< 30 U
117-81-7	bis(2-Ethylhexyl)phthalate	30	< 30 U
218-01-9	Chrysene	30	< 30 U
117-84-0	Di-n-Octyl phthalate	30	< 30 U
205-99-2	Benzo(b)fluoranthene	30	< 30 U
207-08-9	Benzo(k)fluoranthene	30	< 30 U
50-32-8	Benzo(a)pyrene	30	< 30 U
193-39-5	Indeno(1,2,3-cd)pyrene	30	< 30 U
53-70-3	Dibenz(a,h)anthracene	30	< 30 U
191-24-2	Benzo(g,h,i)perylene	30	< 30 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	D	2-Fluorobiphenyl	D
d14-p-Terphenyl	D	d4-1,2-Dichlorobenzene	D
d5-Phenol	D	2-Fluorophenol	D
2,4,6-Tribromophenol	D	d4-2-Chlorophenol	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 17:37
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	**2-Methylphenol**	**1.0**	**4.2**
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	**4-Methylphenol**	**1.0**	**35**
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	**2,4-Dimethylphenol**	**1.0**	**100 E**
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	**Naphthalene**	**1.0**	**1.4**
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	**4-Chloro-3-methylphenol**	**5.0**	**1,500 E**
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-6283
Matrix: Water
Date Analyzed: 03/24/05 17:37

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**5.3**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.0%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	56.8%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	69.9%	2-Fluorophenol	67.7%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	73.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
DILUTION

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/29/05 13:04
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 60.0

CAS Number	Analyte	RL	Result
108-95-2	Phenol	60	< 60 U
111-44-4	Bis-(2-Chloroethyl) Ether	60	< 60 U
95-57-8	2-Chlorophenol	60	< 60 U
541-73-1	1,3-Dichlorobenzene	60	< 60 U
106-46-7	1,4-Dichlorobenzene	60	< 60 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	60	< 60 U
95-48-7	2-Methylphenol	60	< 60 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	60	< 60 U
106-44-5	4-Methylphenol	60	< 60 U
621-64-7	N-Nitroso-Di-N-Propylamine	300	< 300 U
67-72-1	Hexachloroethane	60	< 60 U
98-95-3	Nitrobenzene	60	< 60 U
78-59-1	Isophorone	60	< 60 U
88-75-5	2-Nitrophenol	300	< 300 U
105-67-9	**2,4-Dimethylphenol**	**60**	**97**
65-85-0	Benzoic Acid	600	< 600 U
111-91-1	bis(2-Chloroethoxy) Methane	60	< 60 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	60	< 60 U
91-20-3	Naphthalene	60	< 60 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	60	< 60 U
59-50-7	**4-Chloro-3-methylphenol**	**300**	**2,500**
91-57-6	2-Methylnaphthalene	60	< 60 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	60	< 60 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	60	< 60 U
208-96-8	Acenaphthylene	60	< 60 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	60	< 60 U
51-28-5	2,4-Dinitrophenol	600	< 600 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	60	< 60 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	60	< 60 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
DILUTION

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Date Analyzed: 03/29/05 13:04

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	60	< 60 U
86-73-7	Fluorene	60	< 60 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600	< 600 U
86-30-6	N-Nitrosodiphenylamine	60	< 60 U
101-55-3	4-Bromophenyl-phenylether	60	< 60 U
118-74-1	Hexachlorobenzene	60	< 60 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	60	< 60 U
86-74-8	Carbazole	60	< 60 U
120-12-7	Anthracene	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
206-44-0	Fluoranthene	60	< 60 U
129-00-0	Pyrene	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	60	< 60 U
117-81-7	bis(2-Ethylhexyl)phthalate	60	< 60 U
218-01-9	Chrysene	60	< 60 U
117-84-0	Di-n-Octyl phthalate	60	< 60 U
205-99-2	Benzo(b)fluoranthene	60	< 60 U
207-08-9	Benzo(k)fluoranthene	60	< 60 U
50-32-8	Benzo(a)pyrene	60	< 60 U
193-39-5	Indeno(1,2,3-cd)pyrene	60	< 60 U
53-70-3	Dibenz(a,h)anthracene	60	< 60 U
191-24-2	Benzo(g,h,i)perylene	60	< 60 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	D	2-Fluorobiphenyl	D
d14-p-Terphenyl	D	d4-1,2-Dichlorobenzene	D
d5-Phenol	D	2-Fluorophenol	D
2,4,6-Tribromophenol	D	d4-2-Chlorophenol	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 18:10
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Date Analyzed: 03/24/05 18:10

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	71.6%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	71.6%	d4-1,2-Dichlorobenzene	63.2%
d5-Phenol	62.1%	2-Fluorophenol	62.7%
2,4,6-Tribromophenol	81.3%	d4-2-Chlorophenol	69.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 18:43
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Date Analyzed: 03/24/05 18:43

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	78.0%	d4-1,2-Dichlorobenzene	53.6%
d5-Phenol	54.9%	2-Fluorophenol	54.7%
2,4,6-Tribromophenol	76.5%	d4-2-Chlorophenol	61.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-032205
LCS/LCSD

Lab Sample ID: LCS-032205
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted LCS/LCSD: 03/22/05

Date Analyzed LCS: 03/24/05 12:07
LCSD: 03/24/05 12:40
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	26.2	37.5	69.9%	27.5	37.5	73.3%	4.8%
2-Chlorophenol	26.5	37.5	70.7%	27.9	37.5	74.4%	5.1%
1,4-Dichlorobenzene	13.8	25.0	55.2%	15.2	25.0	60.8%	9.7%
N-Nitroso-Di-N-Propylamine	17.5	25.0	70.0%	18.6	25.0	74.4%	6.1%
1,2,4-Trichlorobenzene	14.1	25.0	56.4%	15.6	25.0	62.4%	10.1%
4-Chloro-3-methylphenol	28.8	37.5	76.8%	30.4	37.5	81.1%	5.4%
Acenaphthene	17.9	25.0	71.6%	18.5	25.0	74.0%	3.3%
4-Nitrophenol	29.5	37.5	78.7%	29.5	37.5	78.7%	0.0%
2,4-Dinitrotoluene	18.8	25.0	75.2%	19.5	25.0	78.0%	3.7%
Pentachlorophenol	25.7	37.5	68.5%	27.6	37.5	73.6%	7.1%
Phenanthrene	2.5	3.0	83.3%	2.5	3.0	83.3%	0.0%
Pyrene	18.6	25.0	74.4%	19.0	25.0	76.0%	2.1%
Chrysene	2.6	3.0	86.7%	2.6	3.0	86.7%	0.8%
Benzo(k)fluoranthene	2.4	3.0	80.0%	2.4	3.0	80.0%	0.4%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	77.2%	75.6%
2-Fluorobiphenyl	73.6%	71.2%
d14-p-Terphenyl	82.0%	78.0%
d4-1,2-Dichlorobenzene	68.0%	65.6%
d5-Phenol	76.0%	74.4%
2-Fluorophenol	73.3%	71.2%
2,4,6-Tribromophenol	81.9%	78.7%
d4-2-Chlorophenol	74.9%	73.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Client ID	MNP	DBA	TOT OUT
MB-032205	71.0%	68.3%	0
LCS-032205	83.0%	61.0%	0
LCSD-032205	90.7%	73.7%	0
SY-PL2-117A	76.7%	40.0%	0
SY-PL2-117A DL	D	D	0
SY-PL2-112A	90.0%	36.7%	0
SY-PL2-112A DL	D	D	0
SY-PL2-113A	70.3%	58.7%	0
SY-PL2-116A	65.7%	79.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-5282 to 05-5287

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-032205
METHOD BLANK

Lab Sample ID: MB-032205
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 12:27
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	71.0%
d14-Dibenzo(a,h)anthracene	68.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 16:09
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	1.3	< 1.3 Y
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	76.7%
d14-Dibenzo(a,h)anthracene	40.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-117A
DILUTION

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/28/05 12:40
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 100

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	10	< 10 U
91-57-6	2-Methylnaphthalene	110	< 110 Y
208-96-8	Acenaphthylene	10	< 10 U
83-32-9	Acenaphthene	10	< 10 U
86-73-7	Fluorene	10	< 10 U
85-01-8	Phenanthrene	10	< 10 U
120-12-7	Anthracene	10	< 10 U
206-44-0	Fluoranthene	10	< 10 U
129-00-0	Pyrene	10	< 10 U
56-55-3	Benzo(a)anthracene	10	< 10 U
218-01-9	Chrysene	10	< 10 U
205-99-2	Benzo(b)fluoranthene	10	< 10 U
207-08-9	Benzo(k)fluoranthene	10	< 10 U
50-32-8	Benzo(a)pyrene	10	< 10 U
193-39-5	Indeno(1,2,3-cd)pyrene	10	< 10 U
53-70-3	Dibenz(a,h)anthracene	10	< 10 U
191-24-2	Benzo(g,h,i)perylene	10	< 10 U
132-64-9	Dibenzofuran	10	< 10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracene	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 16:35
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	2.0	< 2.0 Y
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	90.0%
d14-Dibenzo(a,h)anthracene	36.7%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-112A
DILUTION

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/28/05 13:05
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 100

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	10	< 10 U
91-57-6	2-Methylnaphthalene	130	< 130 Y
208-96-8	Acenaphthylene	10	< 10 U
83-32-9	Acenaphthene	10	< 10 U
86-73-7	Fluorene	10	< 10 U
85-01-8	Phenanthrene	10	< 10 U
120-12-7	Anthracene	10	< 10 U
206-44-0	Fluoranthene	10	< 10 U
129-00-0	Pyrene	10	< 10 U
56-55-3	Benzo(a)anthracene	10	< 10 U
218-01-9	Chrysene	10	< 10 U
205-99-2	Benzo(b)fluoranthene	10	< 10 U
207-08-9	Benzo(k)fluoranthene	10	< 10 U
50-32-8	Benzo(a)pyrene	10	< 10 U
193-39-5	Indeno(1,2,3-cd)pyrene	10	< 10 U
53-70-3	Dibenz(a,h)anthracene	10	< 10 U
191-24-2	Benzo(g,h,i)perylene	10	< 10 U
132-64-9	Dibenzofuran	10	< 10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 14:34
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracene	58.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 14:59
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.7%
d14-Dibenzo(a,h)anthracene	79.7%

000069

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-032205
LCS/LCSD

Lab Sample ID: LCS-032205
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted LCS/LCSD: 03/22/05

Date Analyzed LCS: 03/24/05 12:53
LCSD: 03/24/05 13:18
Instrument/Analyst LCS: NT1/YZ
LCSD: NT1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.68	3.00	89.3%	2.91	3.00	97.0%	8.2%
Chrysene	2.59	3.00	86.3%	2.81	3.00	93.7%	8.1%
Benzo(k)fluoranthene	2.43	3.00	81.0%	2.89	3.00	96.3%	17.3%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	83.0%	90.7%
d14-Dibenzo(a,h)anthracene	61.0%	73.7%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Client ID	DCBP	TCMX	TOT OUT
MB-032105	108%	74.5%	0
LCS-032105	86.5%	80.8%	0
LCSD-032105	121%	80.8%	0
SY-PL2-117A	85.5%	96.8%	0
SY-PL2-112A	74.5%	88.2%	0
SY-PL2-113A	124%	83.5%	0
SY-PL2-116A	90.2%	82.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-5282 to 05-5287

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-032105
METHOD BLANK

Lab Sample ID: MB-032105
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 13:23
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	108%
Tetrachlorometaxylene	74.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 14:14
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	96.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 14:31
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.5%
Tetrachlorometaxylene	88.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 14:48
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	124%
Tetrachlorometaxylene	83.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 15:05
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.2%
Tetrachlorometaxylene	82.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-032105
LCS/LCSD

Lab Sample ID: LCS-032105
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/21/05

Date Analyzed LCS: 04/01/05 13:40
LCSD: 04/01/05 13:57
Instrument/Analyst LCS: ECD5/YZ
LCSD: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.57	5.12	89.3%	4.88	5.12	95.3%	6.6%
Aroclor 1260	5.28	5.12	103%	6.28	5.12	123%	17.3%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	86.5%	121%
Tetrachlorometaxylene	80.8%	80.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

NWTPH-G

ANALYTICAL RESOURCES INCORPORATED

WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: HV86

LIMS ID	Lab ID	Client ID	TFT	BB	TOT OUT
05-5282MB	032905MB	Method Blank	95.1%	91.2%	0
05-5282LC	032905LC	Lab Control	99.9%	92.4%	0
05-5282LCD	032905LCD	Lab Control Dup	99.3%	96.3%	0
05-5282	HV86B	SY-PL2-117A	107%	104%	0
05-5283	HV86C	SY-PL2-112A	112%	108%	0
05-5284	HV86D	SY-PL2-912A	108%	106%	0
05-5286	HV86F	SY-PL2-113A	114%	105%	0
05-5287	HV86G	SY-PL2-116A	104%	98.8%	0
05-5288	HV86H	TRIP BLANK	106%	97.7%	0

	MB/LCS QC LIMITS	SAMPLE QC LIMITS
(TFT) = Trifluorotoluene	(79-124)	(53-133)
(BB) = Bromobenzene	(78-119)	(56-132)

Limits Updated - 01/18/05

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Data Release Authorized:
Reported: 04/01/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-032905	Method Blank	03/29/05		Gasoline	< 0.25 U
05-5282		PID2		HC ID	---
				Trifluorotoluene	95.1%
				Bromobenzene	91.2%
HV86B	SY-PL2-117A	03/29/05		Gasoline	< 0.25 U
05-5282		PID2		HC ID	---
				Trifluorotoluene	107%
				Bromobenzene	104%
HV86C	SY-PL2-112A	03/29/05		Gasoline	< 0.25 U
05-5283		PID2		HC ID	---
				Trifluorotoluene	112%
				Bromobenzene	108%
HV86D	SY-PL2-912A	03/29/05		Gasoline	< 0.25 U
05-5284		PID2		HC ID	---
				Trifluorotoluene	108%
				Bromobenzene	106%
HV86F	SY-PL2-113A	03/29/05		Gasoline	< 0.25 U
05-5286		PID2		HC ID	---
				Trifluorotoluene	114%
				Bromobenzene	105%
HV86G	SY-PL2-116A	03/29/05		Gasoline	< 0.25 U
05-5287		PID2		HC ID	---
				Trifluorotoluene	104%
				Bromobenzene	98.8%
HV86H	TRIP BLANK	03/29/05		Gasoline	< 0.25 U
05-5288		PID2		HC ID	---
				Trifluorotoluene	106%
				Bromobenzene	97.7%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene

Sample ID: LCS-032905
LCS/LCSD

Lab Sample ID: LCS-032905
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 04/01/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC
Date Analyzed LCS: 03/29/05 15:32
LCSD: 03/29/05 16:01

Sample Amount LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	2.33	2.50	93.2%	2.55	2.50	102%	9.0%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	99.9%	99.3%
Bromobenzene	92.4%	96.3%

FORM III

NWTPH-D

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Client ID	OTER	TOT OUT
MB-032105	80.0%	0
LCS-032105	78.9%	0
LCSD-032105	82.7%	0
SY-PL2-117A	81.6%	0
SY-PL2-112A	84.4%	0
SY-PL2-112A DL	83.4%	0
SY-PL2-912A	86.9%	0
SY-PL2-912A DL	84.9%	0
SY-PL2-113A	67.3%	0
SY-PL2-116A	90.0%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(54-131)	(46-123)

Prep Method: SW3510C
Log Number Range: 05-5282 to 05-5287

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Received: 03/16/05

Data Release Authorized:
Reported: 03/24/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-032105	Method Blank	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5282	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	80.0%
HV86B	SY-PL2-117A	03/21/05	03/22/05	1.0	**Diesel**	**0.38**
05-5282	HC ID: **DRO**		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	81.6%
HV86C	SY-PL2-112A	03/21/05	03/22/05	1.0	**Diesel**	**9.8 E**
05-5283	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**1.3**
					o-Terphenyl	84.4%
HV86C DL	SY-PL2-112A	03/21/05	03/23/05	5.0	**Diesel**	**8.9**
05-5283	HC ID: **DRO**		FID3A		Motor Oil	< 2.5 U
					o-Terphenyl	83.4%
HV86D	SY-PL2-912A	03/21/05	03/22/05	1.0	**Diesel**	**9.2 E**
05-5284	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**1.2**
					o-Terphenyl	86.9%
HV86D DL	SY-PL2-912A	03/21/05	03/23/05	5.0	**Diesel**	**8.3**
05-5284	HC ID: **DRO**		FID3A		Motor Oil	< 2.5 U
					o-Terphenyl	84.9%
HV86F	SY-PL2-113A	03/21/05	03/22/05	1.0	**Diesel**	**0.28**
05-5286	HC ID: **DRO**		FID3A		Not Entered	< 0.50 U
					o-Terphenyl	67.3%
HV86G	SY-PL2-116A	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5287	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	90.0%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: SY-PL2-603A
MS/MSD

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted MS/MSD: 03/21/05

Date Analyzed MS: 03/22/05 20:30
MSD: 03/22/05 20:45
Instrument/Analyst MS: FID/ESJ
MSD: FID/ESJ

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	0.65	3.42	3.00	92.3%	3.12	3.00	82.3%	9.2%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-032105
LCS/LCSD

Lab Sample ID: LCS-032105
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted LCS/LCSD: 03/21/05
Date Analyzed LCS: 03/22/05 19:44
LCSD: 03/22/05 19:59
Instrument/Analyst LCS: FID/ESJ
LCSD: FID/ESJ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.64	3.00	88.0%	2.76	3.00	92.0%	4.4%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	78.9%	82.7%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: HV86
Matrix: Water
Project: P2DG-South Yard Area
Date Received: 03/16/05
17505.0

ARI ID	Client ID	Client Amt	Final Vol	Prep Date
05-5282-032105MB1	Method Blank	500 mL	1.00 mL	03/21/05
05-5282-032105LCS1	Lab Control	500 mL	1.00 mL	03/21/05
05-5282-032105LCSD1	Lab Control Dup	500 mL	1.00 mL	03/21/05
05-5282-HV86B	SY-PL2-117A	500 mL	1.00 mL	03/21/05
05-5283-HV86C	SY-PL2-112A	500 mL	1.00 mL	03/21/05
05-5284-HV86D	SY-PL2-912A	500 mL	1.00 mL	03/21/05
05-5286-HV86F	SY-PL2-113A	500 mL	1.00 mL	03/21/05
05-5287-HV86G	SY-PL2-116A	500 mL	1.00 mL	03/21/05

TOTAL & DISSOLVED METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-110C
SAMPLE

Lab Sample ID: HV86A
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	2	4	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	2	2	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	5	5	U
3010A	03/22/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**274**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	2	5	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	1	1	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	4	
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-110C
DUPLICATE

Lab Sample ID: HV86A
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	50 U	50 U	0.0%	+/- 50	L
Arsenic	200.8	4	4	0.0%	+/- 2	L
Beryllium	6010B	1 U	1 U	0.0%	+/- 1	L
Cadmium	6010B	2 U	2 U	0.0%	+/- 2	L
Chromium	6010B	5 U	5 U	0.0%	+/- 5	L
Copper	200.8	2 U	2 U	0.0%	+/- 2	L
Lead	200.8	5 U	5 U	0.0%	+/- 5	L
Manganese	6010B	274	281	2.5%	+/- 20%	
Nickel	200.8	5	5	0.0%	+/- 2	L
Selenium	6010B	50 U	50 U	0.0%	+/- 50	L
Silver	200.8	1 U	1 U	0.0%	+/- 1	L
Thallium	6010B	50 U	50 U	0.0%	+/- 50	L
Thallium	200.8	1 U	1 U	0.0%	+/- 1	L
Vanadium	6010B	4	4	0.0%	+/- 3	L
Zinc	6010B	6 U	6 U	0.0%	+/- 6	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-110C
MATRIX SPIKE

Lab Sample ID: HV86A
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	50.0 U	2,060	2,000	103%	
Arsenic	200.8	4.30	29.7	25.0	102%	
Beryllium	6010B	1.00 U	429	500	85.8%	
Cadmium	6010B	2.00 U	507	500	101%	
Chromium	6010B	5.00 U	443	500	88.6%	
Copper	200.8	2.50 U	24.6	25.0	98.4%	
Lead	200.8	5.00 U	22.4	25.0	89.6%	
Manganese	6010B	274	704	500	86.0%	
Nickel	200.8	5.30	28.6	25.0	93.2%	
Selenium	6010B	50.0 U	2,070	2,000	104%	
Silver	200.8	1.00 U	23.0	25.0	92.0%	
Thallium	6010B	50.0 U	1,650	2,000	82.5%	
Thallium	200.8	1.00 U	22.6	25.0	90.4%	
Vanadium	6010B	3.94	489	500	97.0%	
Zinc	6010B	6.00 U	405	500	81.0%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-38-2	Arsenic	0.2	55.3	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	160	
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	52.4	
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	12	
3010A	03/22/05	6010B	03/28/05	7439-96-5	Manganese	1	1,780	
200.8	03/23/05	200.8	03/29/05	7440-02-0	Nickel	0.5	27.2	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-62-2	Vanadium	3	104	
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	215	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**63.7**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**2.9**	
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
3010A	03/22/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**2,100**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.4**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**9**	
3010A	03/22/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**6**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-912A
SAMPLE

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**60.8**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**2.5**	
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
3010A	03/22/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**2,100**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.1**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**9**	
3010A	03/22/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**7**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PLZ-112B
SAMPLE

Lab Sample ID: HV86E
LIMS ID: 05-5285
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**0.8**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**8.4**	
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
3010A	03/22/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**496**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**9.5**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/22/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**29**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**7.1**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**1.8**	
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
3010A	03/22/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**580**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**4.3**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	7	
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**22.4**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
3010A	03/22/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**3,830**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**0.5**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HV86MB
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-38-2	Arsenic	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
3010A	03/22/05	6010B	03/28/05	7439-96-5	Manganese	1	1	U
200.8	03/23/05	200.8	03/29/05	7440-02-0	Nickel	0.5	0.5	U
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HV86LCS
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	2000	2000	100%	
Arsenic	200.8	26.6	25.0	106%	
Beryllium	6010B	475	500	95.0%	
Cadmium	6010B	504	500	101%	
Chromium	6010B	468	500	93.6%	
Copper	200.8	26.2	25.0	105%	
Lead	200.8	27.5	25.0	110%	
Manganese	6010B	476	500	95.2%	
Nickel	200.8	25.9	25.0	104%	
Selenium	6010B	1980	2000	99.0%	
Silver	200.8	25.7	25.0	103%	
Thallium	6010B	1920	2000	96.0%	
Thallium	200.8	27.8	25.0	111%	
Vanadium	6010B	496	500	99.2%	
Zinc	6010B	451	500	90.2%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-110C-F
SAMPLE

Lab Sample ID: HV86I
LIMS ID: 05-5289
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/29/05	7440-36-0	Antimony	100	100	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	1	**6**	
6010B	03/23/05	6010B	03/29/05	7440-41-7	Beryllium	2	2	U
6010B	03/23/05	6010B	03/29/05	7440-43-9	Cadmium	4	4	U
6010B	03/23/05	6010B	03/29/05	7440-47-3	Chromium	10	10	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	2	2	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	5	5	U
6010B	03/23/05	6010B	03/29/05	**7439-96-5**	**Manganese**	2	**280**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	2	**5**	
6010B	03/23/05	6010B	03/29/05	7782-49-2	Selenium	100	100	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	1	1	U
6010B	03/23/05	6010B	03/29/05	7440-28-0	Thallium	100	100	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	1	1	U
6010B	03/23/05	6010B	03/29/05	7440-62-2	Vanadium	6	6	U
6010B	03/23/05	6010B	03/29/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-110C-F
DUPLICATE

Lab Sample ID: HV86I
LIMS ID: 05-5289
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010B	100 U	100 U	0.0%	+/- 100	L
Arsenic	200.8	6	6	0.0%	+/- 20%	
Beryllium	6010B	2 U	2 U	0.0%	+/- 2	L
Cadmium	6010B	4 U	4 U	0.0%	+/- 4	L
Chromium	6010B	10 U	10 U	0.0%	+/- 10	L
Copper	200.8	2 U	2 U	0.0%	+/- 2	L
Lead	200.8	5 U	5 U	0.0%	+/- 5	L
Manganese	6010B	280	284	1.4%	+/- 20%	
Nickel	200.8	5	5	0.0%	+/- 2	L
Selenium	6010B	100 U	100 U	0.0%	+/- 100	L
Silver	200.8	1 U	1 U	0.0%	+/- 1	L
Thallium	6010B	100 U	100 U	0.0%	+/- 100	L
Thallium	200.8	1 U	1 U	0.0%	+/- 1	L
Vanadium	6010B	6 U	6 U	0.0%	+/- 6	L
Zinc	6010B	10 U	10 U	0.0%	+/- 10	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-110C-F
MATRIX SPIKE

Lab Sample ID: HV86I
LIMS ID: 05-5289
Matrix: Water
Data Release Authorized
Reported: 09/08/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010B	100 U	3,890	4,000	97.2%	
Arsenic	200.8	6	31	25	100%	
Beryllium	6010B	2 U	963	1,000	96.3%	
Cadmium	6010B	4 U	1,020	1,000	102%	
Chromium	6010B	10 U	960	1,000	96.0%	
Copper	200.8	2 U	24	25	96.0%	
Lead	200.8	5 U	21	25	84.0%	
Manganese	6010B	280	1,240	1,000	96.0%	
Nickel	200.8	5	28	25	92.0%	
Selenium	6010B	100 U	4,440	4,000	111%	
Silver	200.8	1 U	23	25	92.0%	
Thallium	6010B	100 U	3,420	4,000	85.5%	
Thallium	200.8	1 U	22	25	88.0%	
Vanadium	6010B	6 U	1,040	1,000	104%	
Zinc	6010B	10 U	910	1,000	91.0%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-117A-F
SAMPLE

Lab Sample ID: HV86J
LIMS ID: 05-5290
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**40.3**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
6010B	03/23/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**1,520**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.9**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/23/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**18**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-112A-F
SAMPLE

Lab Sample ID: HV86K
LIMS ID: 05-5291
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**59.1**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
6010B	03/23/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**2,170**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**2.2**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**4**	
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-912A-F
SAMPLE

Lab Sample ID: HV86L
LIMS ID: 05-5292
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**58.6**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
6010B	03/23/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**2,120**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**2.0**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**4**	
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-112B-F
SAMPLE

Lab Sample ID: HV86M
LIMS ID: 05-5293
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**0.7**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
6010B	03/23/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**540**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**2.4**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-113A-F
SAMPLE

Lab Sample ID: HV86N
LIMS ID: 05-5294
Matrix: Water
Data Release Authorized:
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**8.9**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
6010B	03/23/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**612**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.8**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**6**	
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-116A-F
SAMPLE

Lab Sample ID: HV860
LIMS ID: 05-5295
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**22.2**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
6010B	03/23/05	6010B	03/28/05	**7439-96-5**	**Manganese**	1	**4,200**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: HV86MB
LIMS ID: 05-5290
Matrix: Water
Data Release Authorized
Reported: 08/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
6010B	03/23/05	6010B	03/28/05	7439-96-5	Manganese	1	1	U
200.8	03/23/05	200.8	03/29/05	7440-02-0	Nickel	0.5	0.5	U
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-28-0	Thallium	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: HV86LCS
LIMS ID: 05-5290
Matrix: Water
Data Release Authorized:
Reported: 09/08/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010B	1990	2000	99.5%	
Arsenic	200.8	26.2	25.0	105%	
Beryllium	6010B	501	500	100%	
Cadmium	6010B	507	500	101%	
Chromium	6010B	493	500	98.6%	
Copper	200.8	26.2	25.0	105%	
Lead	200.8	28	25	112%	
Manganese	6010B	502	500	100%	
Nickel	200.8	25.8	25.0	103%	
Selenium	6010B	2010	2000	100%	
Silver	200.8	26.0	25.0	104%	
Thallium	6010B	1980	2000	99.0%	
Thallium	200.8	27.5	25.0	110%	
Vanadium	6010B	509	500	102%	
Zinc	6010B	493	500	98.6%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
HV86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Client ID: SY-PL2-117A
ARI ID: 05-5282 HV86B

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/16/05	SM 2580	mv	0.1	45.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	3.73
N-Nitrate	03/16/05	Calculated	mg-N/L	0.500	< 0.500 U
N-Nitrite	03/16/05 031605#2	EPA 353.2	mg-N/L	0.500	< 0.500 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#3	EPA 353.2	mg-N/L	0.500	< 0.500 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	39.1
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/18/05 031805#1	EPA 415.1	mg/L	1.50	9.23

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HV86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
N-Ammonia	03/22/05	mg-N/L	< 0.010 U
N-Nitrite	03/16/05	mg-N/L	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	< 0.010 U
Sulfate	03/19/05	mg/L	< 2.0 U
Sulfide	03/17/05	mg/L	< 0.05 U
Total Organic Carbon	03/18/05	mg/L	< 1.50 U

REPLICATE RESULTS-CONVENTIONALS
HV86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HV86B Client ID: SY-PL2-117A					
Redox Potential	03/16/05	mv	45.0	39.0	14.3%
N-Nitrite	03/16/05	mg-N/L	< 0.500	< 0.500	NA
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	< 0.500	2,290	NA
Total Organic Carbon	03/18/05	mg/L	9.23	8.25	11.2%

MS/MSD RESULTS-CONVENTIONALS
HV86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: aof
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HV86B Client ID: SY-PL2-117A						
N-Nitrite	03/16/05	mg-N/L	< 0.500	23.8	25.0	95.2%
Nitrate + Nitrite (NO3+NO2)	03/16/05	mg-N/L	< 0.500	24.7	25.0	98.8%
Total Organic Carbon	03/18/05	mg/L	9.23	27.4	20.0	90.8%

LAB CONTROL RESULTS-CONVENTIONALS
HV86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Sulfide	03/17/05	mg/L	6.79	7.95	85.4%

STANDARD REFERENCE RESULTS-CONVENTIONALS
HV86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: AHP
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
N-Ammonia SPEX 28-24AS	03/22/05	mg-N/L	0.526	0.500	105.2%
N-Nitrite ERA #23034	03/16/05	mg-N/L	0.505	0.500	101.0%
Nitrate + Nitrite (NO3+NO2) ERA #20034	03/16/05	mg-N/L	0.510	0.500	102.0%
Sulfate ERA #08113	03/19/05	mg/L	26.0	25.0	104.0%
Total Organic Carbon SPEX #28-53AS	03/18/05	mg/L	19.8	20.0	99.0%

LOW LEVEL MERCURY

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report #05BR0415

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0415

ARI Client: The Boeing Company
ARI Project ID: HV86

Sample/Sampling/Receiving Info

Analytical Resources Inc.		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
SY-PL2-110C	3/16/2005	05BR0415 - 1	3/17/2005
SY-PL2-117A	3/16/2005	05BR0415 - 2	3/17/2005
SY-PL2-112A	3/16/2005	05BR0415 - 3	3/17/2005
SY-PL2-912A	3/16/2005	05BR0415 - 4	3/17/2005
SY-PL2-112B	3/16/2005	05BR0415 - 5	3/17/2005
SY-PL2-113A	3/16/2005	05BR0415 - 6	3/17/2005
SY-PL2-116A	3/16/2005	05BR0415 - 7	3/17/2005
SY-PL2-110C-F	3/16/2005	05BR0415 - 8	3/17/2005
SY-PL2-117A-F	3/16/2005	05BR0415 - 9	3/17/2005
SY-PL2-112A-F	3/16/2005	05BR0415 - 10	3/17/2005
SY-PL2-912A-F	3/16/2005	05BR0415 - 11	3/17/2005
SY-PL2-112B-F	3/16/2005	05BR0415 - 12	3/17/2005
SY-PL2-113A-F	3/16/2005	05BR0415 - 13	3/17/2005
SY-PL2-116A-F	3/16/2005	05BR0415 - 14	3/17/2005

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report #05BR0415

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0415

ARI Client: The Boeing Company
ARI Project ID: HV86

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-110C	05BR0415 - 1	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-117A	05BR0415 - 2	3/22/2005	3/25/2005	05-0161	33.200	ng/L	
SY-PL2-112A	05BR0415 - 3	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-912A	05BR0415 - 4	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-112B	05BR0415 - 5	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-113A	05BR0415 - 6	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-116A	05BR0415 - 7	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report #05BR0415

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0415

ARI Client: The Boeing Company
ARI Project ID: HV86

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-110C-F	05BR0415 - 8	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-117A-F	05BR0415 - 9	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-112A-F	05BR0415 - 10	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-912A-F	05BR0415 - 11	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-112B-F	05BR0415 - 12	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-113A-F	05BR0415 - 13	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-116A-F	05BR0415 - 14	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U

Analytical Resources, Incorporated
Analytical Chemists and Consultants

June 1, 2005

Kent Angelos
Golder Associates Inc.
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

RE: Project: P2DG-South Yard (17505)
ARI Job No: IC01

Dear Mr. Angelos:

Please find enclosed the original chain of custody records and the final results for the project referenced above. Analytical Resources, Inc. accepted five water samples and a trip blank in good condition on May 20, 2005. The samples were received at a cooler temperature of 8.0°C.

As requested, selected samples were analyzed for semivolatile organics, SIM PNA, PCBs, NWTPH-G and NWTPH-Dx.

Please refer to the case narrative for anomalies associated with these samples.

A copy of this report and all associated ARI raw data will be kept on file with ARI. Should you have any questions or problems, please feel free to call me at any time.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas

Stephanie Lucas
Project Manager
(206) 695-6213
Enclosures

cc: William Ernst, The Boeing Company, PO Box 3707, MS 1W-12, Seattle, WA 98124
Doug Kunkel, Environmental Partners, Inc., 295 NE Gilman Blvd, Suite 201, Issaquah, WA 98027
Dan Machut, The Boeing Company

Chain of Custody
Documentation

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Data Gaps Area
Project Number: 17505.0

ARI JOB NO: IC01

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: ICO1	Turn-around Requested: RUSH - 5 days	Page: 1 of 1	
ARI Client Company: EPI/Boeing	Phone: ~~[illegible]~~ 425-395-0010	Date: 5/20/05	Ice Present? YES
Client Contact: DOUG KUNKEL / JOSH BERNTHAL		No. of Coolers: 1	Cooler Temps: 8.0
Client Project Name: SOUTH YARD DATA GAPS			
Client Project #: 17505.0	Samplers: JDB		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCBs	TPH-G	TPH-DR	SVOCs					Notes/Comments
SY-DP-11-15	5/20/05	0830	WATER	2	X								
SY-DP-12-15	↓	0910	WATER	2	X								
SY-PL2-602A		1020	WATER	4		X	X						
SY-PL2-151A		1100	WATER	4	X			X					
SY-PL2-152A	↓	1145	WATER	2				X					
TRIP BLANK	5/13/05 5/16/05	—	WATER	2									

Comments/Special Instructions	Relinquished by: (Signature)	Received by (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Josh Bernthal	Printed Name: BOB CONGLETON	Printed Name:	Printed Name:
cc Dan Muchut	Company: EPI	Company: ARI	Company:	Company:
	Date & Time: 5/20/05 12:30	Date & Time: 5/20/05 1230	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Data Gaps Area
Project Number: 17505.0

ARI JOB NO: IC01

prepared
by

Analytical Resources, Inc.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: IC01
June 1, 2005

Semivolatile Organics by Method 8270C:

The samples were extracted on 5/23/05 and analyzed on 5/24/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control for all samples.

Method Blank: The method blank contained di-n-butylphthalate. Associated samples have been "B" flagged. No corrective action was taken.

Samples: There were no anomalies associated with these samples.

MS/MSD: No additional volume was received to perform a matrix spike or matrix spike duplicate.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

SIM PNA by Method 8270C-SIM:

The samples were extracted on 5/23/05 and analyzed on 5/25/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control for all samples.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

MS/MSD: No additional volume was received to perform a matrix spike or matrix spike duplicate.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

PCB by Method 8082

The samples were extracted on 5/23/05 and analyzed on 5/25/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control for all samples.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

MS/MSD: No additional volume was received to perform a matrix spike or matrix spike duplicate.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Case Narrative
Project: Boeing P2DG-South Yard (17505)
ARI Job No.: IC01
June 1, 2005
Page 2

NWTPH-G

All samples were received with pH < 2.0. The samples were analyzed on 5/23/05 within the method recommended holding time.

The trip blank vials were made by ARI on 5/13/05 and 5/16/05. They were received on 5/20/05, and one vial was analyzed on 5/23/05.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blanks were free of contamination.

Samples: There were no anomalies associated with these samples.

MS/MSD: No additional volume was received to perform a matrix spike or matrix spike duplicate.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

NWTPH-D

The samples were extracted on 5/23/05 and were analyzed on 5/25/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were in control.

Method Blank: The method blank was free of contamination.

Samples: There were no anomalies associated with these samples.

MS/MSD: No additional volume was received to perform a matrix spike or matrix spike duplicate.

LCS/LCSD (s): All percent recoveries and RPDs for the analytes of interest were within compliance.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Data Summary Package

prepared
for

THE BOEING COMPANY

Project: P2DG-South Yard Data Gaps Area
Project Number: 17505.0

ARI JOB NO: IC01

prepared
by

Analytical Resources, Inc.

SEMIVOLATILE ORGANICS 8270C

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-052305	78.8%	76.8%	89.2%	61.6%	68.5%	69.3%	84.8%	76.3%	0
LCS-052305	76.8%	72.8%	85.6%	63.6%	70.4%	68.5%	82.7%	74.7%	0
LCSD-052305	80.0%	74.0%	87.2%	62.4%	73.3%	71.2%	87.2%	76.8%	0
SY-PL2-151A	78.0%	70.8%	84.0%	64.8%	70.1%	69.1%	80.3%	75.7%	0
SY-PL2-152A	76.4%	70.0%	80.4%	62.0%	65.3%	65.3%	78.1%	72.3%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 05-8844 to 05-8845

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-052305
METHOD BLANK

Lab Sample ID: MB-052305
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 05/23/05
Date Analyzed: 05/24/05 16:07
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-052305
METHOD BLANK

Lab Sample ID: MB-052305
LIMS ID: 05-8844
Matrix: Water
Date Analyzed: 05/24/05 16:07

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**1.5**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.8%	2-Fluorobiphenyl	76.8%
d14-p-Terphenyl	89.2%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	68.5%	2-Fluorophenol	69.3%
2,4,6-Tribromophenol	84.8%	d4-2-Chlorophenol	76.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/24/05 17:50
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Date Analyzed: 05/24/05 17:50

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**1.4 B**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	84.0%	d4-1,2-Dichlorobenzene	64.8%
d5-Phenol	70.1%	2-Fluorophenol	69.1%
2,4,6-Tribromophenol	80.3%	d4-2-Chlorophenol	75.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: IC01E
LIMS ID: 05-8845
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/24/05 18:25
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: IC01E
LIMS ID: 05-8845
Matrix: Water
Date Analyzed: 05/24/05 18:25

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**1.6 B**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.4%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	80.4%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	65.3%	2-Fluorophenol	65.3%
2,4,6-Tribromophenol	78.1%	d4-2-Chlorophenol	72.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-052305
LCS/LCSD

Lab Sample ID: LCS-052305
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted LCS/LCSD: 05/23/05

Date Analyzed LCS: 05/24/05 16:41
LCSD: 05/24/05 17:16
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	24.4	37.5	65.1%	27.6	37.5	73.6%	12.3%
2-Chlorophenol	26.4	37.5	70.4%	29.0	37.5	77.3%	9.4%
1,4-Dichlorobenzene	12.9	25.0	51.6%	14.4	25.0	57.6%	11.0%
N-Nitroso-Di-N-Propylamine	17.8	25.0	71.2%	19.4	25.0	77.6%	8.6%
1,2,4-Trichlorobenzene	14.4	25.0	57.6%	15.7	25.0	62.8%	8.6%
4-Chloro-3-methylphenol	29.0	37.5	77.3%	32.4	37.5	86.4%	11.1%
Acenaphthene	17.7	25.0	70.8%	19.5	25.0	78.0%	9.7%
4-Nitrophenol	36.8	37.5	98.1%	40.9	37.5	109%	10.6%
2,4-Dinitrotoluene	17.9	25.0	71.6%	19.9	25.0	79.6%	10.6%
Pentachlorophenol	32.9	37.5	87.7%	36.2	37.5	96.5%	9.6%
Pyrene	18.6	25.0	74.4%	19.9	25.0	79.6%	6.8%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	76.8%	80.0%
2-Fluorobiphenyl	72.8%	74.0%
d14-p-Terphenyl	85.6%	87.2%
d4-1,2-Dichlorobenzene	63.6%	62.4%
d5-Phenol	70.4%	73.3%
2-Fluorophenol	68.5%	71.2%
2,4,6-Tribromophenol	82.7%	87.2%
d4-2-Chlorophenol	74.7%	76.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

SIM PNA 8270C-SIM

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

Client ID	MNP	DBA	TOT OUT
MB-052305	76.0%	78.0%	0
LCS-052305	77.7%	79.0%	0
LCSD-052305	80.0%	82.0%	0
SY-PL2-151A	67.7%	54.3%	0
SY-PL2-152A	69.0%	46.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-8844 to 05-8845

FORM-II SIM SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: MB-052305
METHOD BLANK

Lab Sample ID: MB-052305
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 12:10
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	76.0%
d14-Dibenzo(a,h)anthracene	78.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 14:43
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracene	54.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: IC01E
LIMS ID: 05-8845
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 13:51
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	69.0%
d14-Dibenzo(a,h)anthracene	46.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: LCS-052305
LCS/LCSD

Lab Sample ID: LCS-052305
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted LCS/LCSD: 05/23/05

Date Analyzed LCS: 05/25/05 14:17
LCSD: 05/25/05 13:00
Instrument/Analyst LCS: NT1/Van
LCSD: NT1/Van

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	2.74	3.00	91.3%	2.64	3.00	88.0%	3.7%
Chrysene	2.52	3.00	84.0%	2.55	3.00	85.0%	1.2%
Benzo(k)fluoranthene	1.81	3.00	60.3%	1.85	3.00	61.7%	2.2%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	77.7%	80.0%
d14-Dibenzo(a,h)anthracene	79.0%	82.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

PCBs

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

Client ID	DCBP	TCMX	TOT OUT
MB-052305	60.8%	84.0%	0
LCS-052305	80.5%	103%	0
LCSD-052305	72.8%	102%	0
SY-DP-11-19	74.2%	88.5%	0
SY-DP-12-15	76.8%	51.0%	0
SY-PL2-151A	63.0%	94.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 05-8841 to 05-8844

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-052305
METHOD BLANK

Lab Sample ID: MB-052305
LIMS ID: 05-8841
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 18:12
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	60.8%
Tetrachlorometaxylene	84.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-11-19
SAMPLE

Lab Sample ID: IC01A
LIMS ID: 05-8841
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 19:03
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	74.2%
Tetrachlorometaxylene	88.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-12-15
SAMPLE

Lab Sample ID: IC01B
LIMS ID: 05-8842
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 19:20
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	51.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 19:37
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate	Recovery
Decachlorobiphenyl	63.0%
Tetrachlorometaxylene	94.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-052305
LCS/LCSD

Lab Sample ID: LCS-052305
LIMS ID: 05-8841
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/23/05

Date Analyzed LCS: 05/25/05 18:29
LCSD: 05/25/05 18:46
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	6.03	5.12	118%	6.14	5.12	120%	1.8%
Aroclor 1260	4.61	5.12	90.0%	4.34	5.12	84.8%	6.0%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	80.5%	72.8%
Tetrachlorometaxylene	103%	102%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

NWTPH-G

ANALYTICAL RESOURCES INCORPORATED

WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water

QC Report No: IC01

LIMS ID	Lab ID	Client ID	TFT	BB	TOT OUT
05-8843MB	052305MB	Method Blank	95.7%	99.9%	0
05-8843LC	052305LC	Lab Control	90.7%	84.1%	0
05-8843LCD	052305LCD	Lab Control Dup	93.6%	85.5%	0
05-8843	IC01C	SY-PL2-602A	100%	101%	0
05-8846	IC01F	TRIP BLANK	105%	101%	0

	MB/LCS QC LIMITS	SAMPLE QC LIMITS
(TFT) = Trifluorotoluene	(79-124)	(53-133)
(BB) = Bromobenzene	(78-119)	(56-132)

Limits Updated - 01/18/05

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

FORM-II TPHg

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

Data Release Authorized:
Reported: 05/24/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-052305	Method Blank	05/23/05		Gasoline	< 0.25 U
05-8843		PID2		HC ID	---
				Trifluorotoluene	95.7%
				Bromobenzene	99.9%
IC01C	SY-PL2-602A	05/23/05		Gasoline	< 0.25 U
05-8843		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	101%
IC01F	TRIP BLANK	05/23/05		Gasoline	< 0.25 U
05-8846		PID2		HC ID	---
				Trifluorotoluene	105%
				Bromobenzene	101%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene

Sample ID: LCS-052305
LCS/LCSD

Lab Sample ID: LCS-052305
LIMS ID: 05-8843
Matrix: Water
Data Release Authorized:
Reported: 05/24/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC
Date Analyzed LCS: 05/23/05 19:11
LCSD: 05/23/05 14:19

Sample Amount LCS: 5.0 mL
LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	0.84	1.00	84.0%	0.85	1.00	85.0%	1.2%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	90.7%	93.6%
Bromobenzene	84.1%	85.5%

NWTPH-D

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

Client ID	OTER	TOT OUT
MB-052305	87.6%	0
LCS-052305	78.9%	0
LCSD-052305	84.9%	0
SY-PL2-602A	86.7%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(54-131)	(46-123)

Prep Method: SW3510C
Log Number Range: 05-8843 to 05-8843

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Received: 05/20/05

Data Release Authorized:
Reported: 05/25/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-052305	Method Blank	05/23/05	05/25/05	1.0	Diesel	< 0.25 U
05-8843	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	87.6%
IC01C	SY-PL2-602A	05/23/05	05/25/05	1.0	**Diesel**	**0.26**
05-8843	HC ID: **DRO**		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	86.7%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID

Sample ID: LCS-052305
LCS/LCSD

Lab Sample ID: LCS-052305
LIMS ID: 05-8843
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted LCS/LCSD: 05/23/05

Date Analyzed LCS: 05/25/05 11:00
LCSD: 05/25/05 11:15
Instrument/Analyst LCS: FID3A/PKC
LCSD: FID3A/PKC

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.29	3.00	76.3%	2.44	3.00	81.3%	6.3%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	78.9%	84.9%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: IC01
Matrix: Water
Project: SOUTH YARD DATA GAPS
Date Received: 05/20/05
17505.0

ARI ID	Client ID	Client Amt	Final Vol	Prep Date
05-8843-052305MB1	Method Blank	500 mL	1.00 mL	05/23/05
05-8843-052305LCS1	Lab Control	500 mL	1.00 mL	05/23/05
05-8843-052305LCSD1	Lab Control Dup	500 mL	1.00 mL	05/23/05
05-8843-IC01C	SY-PL2-602A	500 mL	1.00 mL	05/23/05

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 2 of 2

Attachment G-2
Data Validation Reports,
Checklists and Validated Form 1's

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BOEING PLANT 2 - SOUTH YARD AREA
DATA GAPS INVESTIGATION
DATA VALIDATION QA/QC REVIEW

A total of one hundred thirty-nine soil and groundwater samples and five trip blank samples were collected in March 2005 as part of the Boeing Plant 2 South Yard Area Data Gaps Investigation. Samples were analyzed by Analytical Resources Incorporated (ARI) of Seattle, Washington for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCBs), metals, mercury, total petroleum hydrocarbons – gas and diesel range, oxidation-reduction potential, ammonia-N, nitrate-N, nitrite-N, nitrate+nitrite (as N), sulfate, sulfide, total organic carbon, and hexavalent chromium.

Samples were analyzed in accordance with procedures described in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (USEPA SW-846, 3rd edition) 6010B, 7471A, 8260B, 8270C, 8082, 350.1, 353.2, 375.2, 376.2, 415.1, EPA Method 200.8, Revision 5.5; Determination of Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry; Standard Methods for the Determination of Water and Wastewater SM3500Cr-D, SM2580.* Trace-level mercury analysis was performed by Brooks Rand LLC of Seattle, Washington using *EPA Method 1631, Revision E: Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry*. Samples were analyzed and results reported by the laboratory in batch numbers by media (groundwater or soil) as summarized below:

HT96 (Soil VOCs, SVOCs, PCBs, metals/mercury, TPH-Dx, TPH-g):

SY-P2-603A-1.5	SY-P2-603A-5	SY-P2-603A-10
SY-P2-603A-EB	Trip Blank	

HU16 (Soil VOCs, SVOCs, PCBs, metals and mercury):

SY-P2-602A-10	SY-P2-601A-1.5	SY-P2-601A-10
SY-P2-602A-10EB	SY-P2-601A-5	SY-P2-602A-1.5
Trip Blank	SY-P2-602A-5	

HU76 (Groundwater VOCs, SVOCs, PCBs, dissolved metals and mercury, hexavalent chromium):

SY-DP-05-15	SY-DP-08-15	SY-DP-02-15-F
SY-DP-04-15	SY-DP-08-15	SY-DP-06-15-F
SY-DP-03-15	SY-DP-05-15-F	SY-DP-08-15-F
SY-DP-03-15-1	SY-DP-04-15-F	SY-DP-07-15-F
SY-DP-02-15	SY-DP-03-15-F	
SY-DP-06-15	SY-DP-03-15-F-1	

HU77 (Soil VOCs, SVOCs, PCBs, metals and mercury, hexavalent chromium):

DP-SY-2-1	DP-SY-4-1	DP-SY-6-1
DP-SY-2-5	DP-SY-4-5	DP-SY-6-5
DP-SY-2-10	DP-SY-4-10	DP-SY-6-10
DP-SY-3-1	DP-SY-5-1	DP-SY-7-1
DP-SY-3-5	DP-SY-5-5	DP-SY-7-5
DP-SY-3-10	DP-SY-5-10	DP-SY-7-10

DP-SY-8-1	DP-SY-8-5	DP-SY-8-10
DP-SY-4-10EB		

HU86 (Groundwater VOCs, SVOCs, PCBs, dissolved metals, mercury, hexavalent chromium):

SY-DP-01-15-F	SY-DP-10-18-F	SY-DP-12-15-F
SY-DP-09-15-F	SY-DP-11-17-F	

HU97 (Soil VOCs, SVOCs, PCBs, metals, mercury, hexavalent chromium):

DP-SY-1-1	DP-SY-10-1	DP-SY-11-10
DP-SY-1-5	DP-SY-10-5	DP-SY-12-1
DP-SY-1-10	DP-SY-10-10	DP-SY-12-5
DP-SY-9-1	DP-SY-11-1	DP-SY-12-10
DP-SY-9-5	DP-SY-11-5	
DP-SY-9-10	Trip Blank	

HV02 (Groundwater VOCs, SVOCs, PCBs, total and dissolved metals, mercury, general chemistry):

SY-PL2-153A	SY-PL2-153A-F	SY-PL2-153C
SY-PL2-153B	SY-PL2-153B-F	SY-PL2-153C-F

HV22 (Groundwater VOCs, SVOCs, PCBs, total and dissolved metals, mercury, general chemistry):

SY-PL2-120A	SY-PL2-154A-F	SY-PL2-154C
SY-PL2-154A	SY-PL2-154B-F	SY-PL2-154C-F
SY-PL2-120A-F	SY-PL2-154B	

HV41 (Groundwater VOCs, SVOCs, PCBs, total and dissolved metals, mercury, general chemistry):

SY-PL2-156A	SY-PL2-151A	SY-PL2-151B-F
SY-PL2-11156A	SY-PL2-156A-F	SY-PL2-151A-F
SY-PL2-151C	SY-PL2-11156A-F-1	SY-PL2-151C-F
SY-PL2-151B		

HV52 (Groundwater VOCs, SVOCs, PCBs, total and dissolved metals, mercury, general chemistry):

SY-PL2-106A	SY-PL2-955A	SY-PL2-155B-F
SY-PL2-106B	SY-PL2-601A	SY-PL2-155C-F
SY-PL2-106C	SY-PL2-106A-F	SY-PL2-955A-F
SY-PL2-155A	SY-PL2-106B -F	SY-PL2-601A-F
SY-PL2-155B	SY-PL2-106C-F	
SY-PL2-155C	SY-PL2-155A-F	

HV67 (Groundwater VOCs, SVOCs, PCBs, total and dissolved metals, mercury, general chemistry):

SY-PL2-152A	SY-PL2-602A	Trip Blank
SY-PL2-152B	SY-PL2-602B	SY-PL2-603A-F
SY-PL2-152C	SY-PL2-603A	SY-PL2-603B-F
SY-PL2-601B	SY-PL2-603B	SY-PL2-152C-F
SY-PL2-152A-F	SY-PL2-602A-F	SY-PL2-601B-F
SY-PL2-152B-F	SY-PL2-602B-F	SY-PL2-115A

HV86 (Groundwater VOCs, SVOCs, PCBs, total and dissolved metals, mercury, general chemistry):

SY-PL2-110C	SY-PL2-112B	Trip Blank
SY-PL2-117A	SY-PL2-113A	SY-PL2-112B-F
SY-PL2-112A	SY-PL2-116A	SY-PL2-113A-F
SY-PL2-912A	SY-PL2-112A-F	SY-PL2-116A-F
SY-PL2-110C-F	SY-PL2-912A-F	SY-PL2-117A-F

Quality assurance/quality control (QA/QC) reviews of laboratory data were performed in the laboratory in accordance with the laboratory quality assurance program plan. The data validation QA/QC review focused primarily on laboratory result summary sheets and quality control summary sheets to ensure that work plan data quality objectives were met for the project. Data validation was conducted in accordance with the criteria outlined in the National Functional Guidelines for Organic Data Review (EPA 1999) and the National Functional Guidelines for Inorganic Data Review (EPA 1994), modified to include method specific requirements of the laboratory analytical methods. Raw data sheets were reviewed as necessary to confirm conditions reported and to support application of qualifiers to analytical results.

The validation level for the data is Level 2, as described in the work plan (EPI 2003). The following is a summary of quality control elements associated with each analytical fraction and the status of that element as a result of the data validation process.

SAMPLING, DOCUMENTATION AND REPORTING

It was noted during review of the EPI work plan against the laboratory reporting limits for metals that the units in the work plan are indicated in mg/L whereas the correct units should be ug/L, which is what is being reported by the laboratory. The laboratory sent a revised table of acceptable limits to the validator. Additionally, several trip blank samples were not listed on the chain-of-custody form.

For SDGs HV02 and HV22, trip blank samples were not provided with the sample set during shipment to the laboratory, and VOCs were requested for analysis. No action was taken.

For SDG HV02 the laboratory noted samples SY-PL2-153C, SY-PL2-153C-F, SY-PL2-153B and SY-PL2-153B-F were received unpreserved for the metals analysis. The laboratory preserved the samples upon receipt, prior to analysis. No action was taken.

For SDG HV22 the laboratory noted samples SY-PL2-154C and SY-PL2-154C-F were received unpreserved for the metals analysis. The laboratory preserved the samples upon receipt, prior to analysis. No action was taken.

For SDG HV41 the laboratory noted samples SY-PL2-151C and SY-PL2-151C-F were received unpreserved for the metals analysis, and a pH of 6 for sample SY-PL2-151C for the VOC analysis. The laboratory preserved the samples prior to analysis for the metals. The VOC sample was analyzed within the 7 day limit for unpreserved samples. No action was taken. Hexavalent chromium was not analyzed for sample SY-PL2-11156A-F-1 due to insufficient sample amount.

For SDG HV52 the laboratory noted samples SY-PL2-106C, SY-PL2-106C-F, SY-PL2-155C and SY-PL2-155C-F were received unpreserved for the metals analysis. The laboratory preserved the samples upon receipt, prior to analysis. No action was taken.

For SDG HV52 the laboratory noted that approximately 20mls of sample volume was lost during addition of the BrCl solution for sample SY-PL2-106C during sample preparation, resulting in UJ qualification of mercury for this sample.

For SDG HU76 the laboratory (Brooks Rand) noted that the samples were sent in polyethylene bottles and that the incorrect preservation was used for the low level mercury analysis. The laboratory flagged the results with an 'H'. Further estimated qualification (UJ) was made to indicate incorrect sample containers and preservation.

For SDG HV67 the laboratory noted samples SY-PL2-152C and SY-PL2-152C-F were received unpreserved for the metals analysis. The laboratory preserved the samples upon receipt, prior to analysis. No action was taken.

VOLATILE ORGANIC COMPOUNDS

The laboratory provided a full data package for the VOC analysis, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for VOC analysis were analyzed by gas chromatography/mass spectrometry (GC/MS) using EPA SW846 Method 8260B.

Sample Holding Times

All samples were prepared and analyzed within 14 days of sample collection (preserved water samples and soil samples) or within 7 days of sample collection (unpreserved water samples) with the following exceptions:

For SDG HV02, samples SY-PL2-153B and SY-PL2-153C were analyzed nine days from collection. The laboratory noted that the pH was >2. Therefore, all compounds for these samples were qualified as estimated (J/UJ) due to holding time exceedance.

For SDG HV22, sample SY-PL2-154C was analyzed eight days from collection. The laboratory noted that the pH was >2. Therefore, all compounds for these samples were qualified as estimated (J/UJ) due to holding time exceedance.

For SDG HU96 the cooler temperature was 8 ˚C. No action was taken since the samples are delivered to the laboratory on the same day as sample collection.

For SDG HV86, sample SY-PL2-110C was analyzed nine days from collection. The laboratory noted that the pH was >2. Therefore, all compounds for these samples were qualified as estimated (J/UJ) due to holding time exceedance.

For SDG HV52, samples SY-PL2-106C and SY-PL2-155C were analyzed nine days from collection. The laboratory noted that the pH was >2. Therefore, all compounds for these samples were qualified as estimated (J/UJ) due to holding time exceedance.

Laboratory Reporting Limits – *acceptable*

The laboratory achieved the reporting limits (RLs) required by the approved quality assurance project plan (EPI, 2003). The reporting limits were not met in cases in which the samples were analyzed at dilutions due to high concentrations of target compounds. No action was taken.

Instrument Calibration and Tuning

A review of the instrument calibration was performed against the reference method criteria. All of the calibration criteria were met with the following exceptions:

Sample	Compound	Qualification	Reason
SY-P2-602A-10EB, TB	Chloromethane	UJ	CCAL 3/7/05 %D >25%
SY-P2-602A-10EB, TB	2-Chloroethylvinylether (2CEVE)	R	CCAL 3/7/05 RRF <0.05
SY-P2-602A-1.5 SY-P2-602A-5 SY-P2-602A-10 SY-P2-601A-1.5 SY-P2-601A-5 SY-P2-601A-10	Carbon disulfide Vinyl chloride 4-Methyl-2-pentanone Ethylbenzene Styrene	J/UJ	CCAL 3/14/05 %D >25%
SY-PL2-153A SY-PL2-153B SY-PL2-153C	Acetone	R	ICAL 3/15/05 RRF <0.05
SY-PL2-153A SY-PL2-153B SY-PL2-153C	2-Hexanone	UJ	CCAL 3/18/05 %D >25%
SY-PL2-153A SY-PL2-153B SY-PL2-153C	2CEVE, 4-Methyl-2-pentanone	R	CCAL 3/18/05 RRF <0.05
SY-PL2-154A SY-PL2-154B SY-PL2-154C SY-PL2-120A	2-Hexanone	UJ	CCAL 3/18/05 %D >25%
SY-PL2-154A SY-PL2-154B SY-PL2-154C SY-PL2-120A	2CEVE, 4-Methyl-2-pentanone, Acetone	R (non-detected) or J (detects)	CCAL 3/18/05 RRF <0.05
DP-SY-5-1 DP-SY-2-1 DP-SY-2-5 DP-SY-2-10 DP-SY-3-1 DP-SY-3-5 DP-SY-3-10 DP-SY-4-1 DP-SY-4-5 DP-SY-4-10	Carbon disulfide Vinyl acetate 4-Methyl-2-pentanone Styrene	J/UJ	CCAL 3/14/0 5%D >25%

Sample	Compound	Qualification	Reason
SY-DP-11-17 SY-DP-01-15 SY-DP-09-15 SY-DP-10-18, DL	Acetone	R	ICAL 3/15/05 RRF <0.05
SY-DP-12-15	Acetone	J	ICAL 3/15/05 RRF <0.05
SY-DP-01-15 SY-DP-09-15 SY-DP-10-18 SY-DP-12-15	4-Methyl-2-pentanone	R	CCAL 3/17/05 RRF <0.05
SY-DP-10-18 DL SY-DP-11-17	2-Hexanone	UJ	CCAL 3/18/05 %D >25%
SY-DP-10-18 DL SY-DP-11-17	4-Methyl-2-pentanone 2CEVE	R	CCAL 3/18/05 RRF <0.05
SY-DP-3-15 SY-DP-6-15 SY-DP-8-15 SY-DP-7-15	Acetone	R	ICAL 3/15/05 RRF <0.05
SY-DP-5-15 SY-DP-4-15	Chloromethane 2CEVE	J/UJ	CCAL 3/14/05 %D >25%
SY-DP-3-15-1	Acetone	R	CCAL 3/15/05 RRF <0.05
SY-DP-2-15	Acetone	R	CCAL 3/16/05 RRF <0.05
SY-PL2-151C	Acetone	R	ICAL 3/15/05 RRF <0.05
SY-PL2-156A SY-PL2-11156A SY-PL2-151B SY-PL2-151A	Acetone	J	ICAL 3/15/05 RRF <0.05
SY-PL2-151C SY-PL2-156A SY-PL2-11156A SY-PL2-151B SY-PL2-151A	4-Methyl-2-pentanone 2-Hexanone	UJ	CCAL 3/18/05 %D >25%
SY-PL2-151C SY-PL2-156A SY-PL2-11156A SY-PL2-151B SY-PL2-151A	2CEVE	R	CCAL 3/18/05 RRF <0.05
DP-SY-1-1 DP-SY-1-5 DP-SY-1-10 DP-SY-9-1 DP-SY-9-5	Trichlorotrifluoromethane	UJ	CCAL 3/17/05 %D >25%
DP-SY-9-10 DP-SY-10-1 DP-SY-10-5 DP-SY-10-10 DP-SY-11-1	Trichlorotrifluoromethane	UJ	CCAL 3/18/05 %D >25%
SY-PL2-152C SY-PL2-115A SY-PL2-603A SY-PL2-152A Trip blank	Acetone	R	ICAL 3/15/05 RRF <0.05
SY-PL2-603ADL SY-PL2-152B SY-PL2-601B SY-PL2-602A SY-PL2-602B SY-PL2-603B SY-PL2-115A	Acetone	J	ICAL 3/15/05 RRF <0.05
SY-PL2-603A SY-PL2-152B	2CEVE	UJ	CCAL 3/25/05 %D >25%

Sample	Compound	Qualification	Reason
SY-PL2-152C SY-PL2-601B SY-PL2-602A SY-PL2-602B SY-PL2-603B SY-PL2-115A Trip blank			
SY-PL2-152A	2CEVE	R	CCAL 3/29/05 RRF <0.05
SY-PL2-112ARE SY-PL2-912ARE SY-PL2-112B SY-PL2-113ARE Trip Blank	Acetone	R	ICAL 3/15/05 RRF <0.05
SY-PL2-110C SY-PL2-117A SY-PL2-112A SY-PL2-912A SY-PL2-113A SY-PL2-116A	Acetone	J	ICAL 3/15/05 RRF <0.05
SY-PL2-110C SY-PL2-117A SY-PL2-112A SY-PL2-912A SY-PL2-113A SY-PL2-116A	2CEVE	UJ	CCAL 3/25/05 %D >25%
SY-PL2-110C SY-PL2-117A SY-PL2-113A SY-PL2-116A	4-Methyl-2-pentanone	R	CCAL 3/25/05 RRF <0.05
SY-PL2-112A SY-PL2-912A	4-Methyl-2-pentanone	J	CCAL 3/25/05 RRF <0.05
SY-PL2-112B	2CEVE	R	CCAL 3/29/05 RRF <0.05
SY-PL2-112ARE SY-PL2-912ARE	2CEVE	UJ	CCAL 3/29/05 %D >25%
SY-PL2-106A SY-PL2-106B SY-PL2-106C SY-PL2-155A SY-PL2-155B SY-PL2-155C SY-PL2-955A SY-PL2-601A	Acetone Methylene chloride	R	ICAL 3/22/05 RRF <0.05
SY-PL2-106A SY-PL2-106B SY-PL2-106C SY-PL2-155A SY-PL2-155B SY-PL2-155C SY-PL2-955A SY-PL2-601A	Acetone	No action, see above R qualification due to ICAL RRF exceedance	CCAL 3/23/05 %D >25%

Blank Contamination – *acceptable*

The method blanks were free of target compounds. Trip blanks were submitted and analyzed with VOC samples from SDGs HT96, HU16 and HU97. All trip blank results were reported as non-detect for all target compounds.

Surrogate Recovery – *acceptable*

All surrogate recoveries were within control limits.

Matrix Spike Compound Recovery

Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were acceptable with the exception of vinyl acetate and 2CEVE, which recovered low in the spike and spike duplicate sample, resulting in estimated qualification (J/UJ) of vinyl acetate in unspiked samples SY-P2-601A-5, DP-SY-6-10, SY-DP-01-15; and 2CEVE for SY-PL2-153A and SY-PL2-106A.

Laboratory Control Sample Recovery

Laboratory control samples (LCS) were evaluated using limits of 70 percent to 130 percent recovery. The laboratory analyzed LCS/LCSD pairs for several SDGs instead of matrix spikes. No action was taken. The following results were qualified due to unacceptable recoveries:

Sample	Compound	Qualification	Reason
SY-PL2-110C SY-PL2-117A SY-PL2-112A SY-PL2-912A SY-PL2-113A SY-PL2-116A	2CEVE	UJ	Low recovery

Internal Standards Recovery

The internal standard criteria were met with the following exceptions:

For HU77, internal standard IS4 recovered low in both the original and re-analysis. Therefore, compounds associated with IS4 were qualified as J/UJ for sample DP-SY-8-5 and DP-SY-8-5RE.

Field Duplicate Sample Analysis

Field duplicate pairs SY-DP-3-15/SY-DP-3-15-1 and SY-PL2-156A/SY-PL2-11156A-1 were collected and results were comparable.

SEMIVOLATILE ORGANIC COMPOUNDS

The laboratory provided a full data package for the full target compound list and SIM SVOC analyses, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for SVOC analysis were analyzed by gas chromatography/mass spectrometry (GC/MS) using EPA SW846 Method 8270C. Samples for PAH analysis were analyzed by GC/MS with SIM quantitation using EPA SW846 Method 8270C.

Sample Holding Times– *acceptable*

All samples were extracted within 7 days for waters (14 for soils) of sample collection and analyzed within 40 days from collection to analysis.

Reporting

The laboratory noted that dibenz(a,h)anthracene for sample SY-PL2-603A-5 was reported with an M qualifier to indicate low spectral matching as determined by the analytical instrumentation. The values were qualified as J to alert the data user of this discrepancy.

Laboratory Reporting Limits – *acceptable*

The laboratory achieved the reporting limits (RLs) required by the approved quality assurance project plan (EPI, 2003). The reporting limits were not met in cases in which the samples were analyzed at dilutions due to high concentrations of target compounds. No action was taken.

Instrument Calibration and Tuning

A review of the instrument calibration was performed against the reference method criteria. All of the calibration criteria were met with the following exceptions:

Sample	Compound	Qualification	Reason
SY-P2-602A-1.5 SY-P2-602A-5 SY-P2-602A-10 SY-P2-601A-1.5 SY-P2-601A-5 SY-P2-601A-10	2,4-Dinitrotoluene 2-Nitroaniline Hexachlorocyclopentadiene Bis(2-chloroethyl)ether Benzyl alcohol 2,2'-Oxybis(1-chloropropane) 4,6-Dimethyl-2-methylphenol Nitrobenzene Isophorone Benzo(g,h,i)perylene Bis(2-chloroethoxy)methane	J/UJ	CCAL 3/14/05 %D >25%
SY-P2-603A-1.5 SY-P2-603A-5 SY-P2-603A-10	4,6-Dinitro-2-methylphenol	UJ	ICAL 3/2/05 %D >30%
SY-P2-603A-1.5 SY-P2-603A-5 SY-P2-603A-10	Hexachlorocyclopentadiene	UJ	CCAL 3/1/05 %D >25%
SY-PL2-153A	Hexachlorocyclopentadiene 4-Nitrophenol	UJ	CCAL 3/17/05 %D >25
SY-PL2-154A SY-PL2-120A	Hexachlorocyclopentadiene 4-Nitrophenol	UJ	CCAL 3/17/05 %D >25
SY-PL2-154A SY-PL2-120A	4,6-Dinitro-2-methylphenol	UJ	ICAL 3/2/05 %D >30
DP-SY-3-5 DP-SY-3-10 DP-SY-4-1 DP-SY-2-5 DP-SY-2-10 DP-SY-3-1 DP-SY-4-5 DP-SY-4-10 DP-SY-5-1 DP-SY-5-10	Hexachlorocyclopentadiene 4-Nitrophenol	UJ	CCAL 3/18/05 %D >25

Sample	Compound	Qualification	Reason
DP-SY-6-5 DP-SY-6-10 DP-SY-7-1			
DP-SY-5-5 DP-SY-7-5 DP-SY-7-10 DP-SY-8-5 DP-SY-2-1 DP-SY-6-1	Benzyl alcohol Hexachlorocyclopentadiene	UJ	CCAL 3/21/05 %D >25
DP-SY-8-1 DP-SY-8-10	Benzyl alcohol Benzoic acid Hexachlorocyclopentadiene 2,4-Dinitrophenol 4-Nitrophenol	UJ	CCAL 3/22/05 %D >25
DP-SY-7-5RE	Hexachlorocyclopentadiene 2,4-Dinitrophenol	UJ	CCAL 3/23/05 %D >25
DP-SY-2-5 DP-SY-2-10 DP-SY-3-1 DP-SY-3-5 DP-SY-4-1 DP-SY-4-5 DP-SY-4-10 DP-SY-5-1	Dibenz(a,h)anthracene	UJ	CCAL 3/16/05 %D >25
SY-DP-01-15 SY-DP-09-15	4,6-Dinitro-2-methylphenol	UJ	ICAL 3/2/05 %D >30
SY-DP-01-15 SY-DP-09-15	Benzyl alcohol Hexachlorocyclopentadiene 4-Nitrophenol	UJ	CCAL 3/16/05 %D>25
SY-DP-01-15 SY-DP-09-15	Dibenz(a,h)anthracene	UJ	CCAL 3/16/05 %D >25
SY-DP-05-15 SY-DP-04-15 SY-DP-03-15 SY-DP-03-15-1 SY-DP-02-15 SY-DP-06-15 SY-DP-08-15 SY-DP-07-15	4,6-Dinitro-2-methylphenol	UJ	ICAL 3/2/05 %D >30%
SY-DP-05-15 SY-DP-04-15 SY-DP-03-15 SY-DP-03-15-1 SY-DP-02-15 SY-DP-06-15 SY-DP-08-15 SY-DP-07-15	Benzyl alcohol Hexachlorocyclopentadiene 4-Nitrophenol	UJ	CCAL 3/16/05 %D>25
SY-DP-05-15 SY-DP-04-15 SY-DP-03-15 SY-DP-03-15-1 SY-DP-02-15 SY-DP-06-15 SY-DP-08-15 SY-DP-07-15	Dibenz(a,h)anthracene	UJ	CCAL 3/16/05 %D >25 SIM
SY-PL2-156A SY-PL2-11156A	4,6-Dinitro-2-methylphenol	UJ	ICAL 3/2/05 %D >30%
SY-PL2-156A	Benzyl alcohol	UJ	CCAL 3/22/05 %D >25

Sample	Compound	Qualification	Reason
SY-PL2-11156A	Benzoic acid Hexachlorocyclopentadiene 2,4-Dinitrophenol 4-Nitrophenol		
DP-SY-1-1 DP-SY-1-5 DP-SY-1-10 DP-SY-9-1 DP-SY-9-5 DP-SY-9-10	4,6-Dinitro-2-methylphenol	UJ	ICAL 3/2/05 %D >30%
DP-SY-1-1 DP-SY-1-5 DP-SY-1-10 DP-SY-9-1 DP-SY-9-5 DP-SY-9-10	Benzyl alcohol Hexachlorocyclopentadiene	UJ	CCAL 3/21/05 %D >25
SY-PL2-602A SY-PL2-603A SY-PL2-115A	Hexachlorocyclopentadiene 2,4-Dinitrophenol	UJ	CCAL 3/23/05 %D >25
SY-PL2-117A SY-PL2-117ADL SY-PL2-112A SY-PL2-112ADL SY-PL2-113A SY-PL2-116A	4,6-Dinitro-2-methylphenol	UJ	ICAL 3/2/05 %D >30
SY-PL2-117A SY-PL2-112A SY-PL2-113A SY-PL2-116A	Hexachlorocyclopentadiene 2,4-Dinitrophenol	UJ	CCAL 3/24/05 %D >25
SY-PL2-117ADL	Hexachlorocyclopentadiene 2,4-Dinitrophenol 4-Nitrophenol	UJ	CCAL 3/28/05 %D >25
SY-PL2-112ADL	Hexachlorocyclopentadiene	UJ	CCAL 3/29/05 %D >25
SY-PL2-155A	Hexachlorocyclopentadiene 2,4-Dinitrophenol		CCAL 3/23/05 %D >25%

Blank Contamination

The method blanks were free of contamination with the following exceptions:

Sample	Compound	Qualification	Reason
SY-PL2-156A SY-PL2-11156A	Naphthalene	U	Blank contamination

Surrogate Recovery – *acceptable*

All surrogate recoveries were within control limits.

Matrix Spike Compound Recovery

Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were elevated for the pair associated with SDG HT96. The laboratory noted that the MSD was blown down too low during sample preparation, affecting recovery of the spiked compounds. Since the recoveries were still within acceptable range, no action was taken for elevated RPDs.

Laboratory Control Sample Recovery – *acceptable*

Laboratory control samples (LCS) were evaluated using limits of 70 percent to 130 percent recovery.

Internal Standards Recovery

The internal standard criteria were met with the following exceptions:

For HU77, internal standard IS6 recovered low in both the original and re-analysis in the TCL SVOA list. Therefore, compounds associated with IS6 were qualified as J/UJ for sample DP-SY-7-5 and DP-SY-7-5RE. For the SIM analysis, the laboratory noted that IS5 was suppressed during analysis and subsequent reanalysis. Therefore, the analyst requantified using a different internal standard, with acceptable results.

For HV86, internal standard ISI for the SIM analysis was obscured by a target peak seen in the full 8270 analysis for samples SY-PL2-117A and SY-PL2-112A. The laboratory reported the associated compound naphthalene for these samples with a Y qualifier to indicate interference and an elevated reporting limit. For the dilutions of these two samples, the laboratory reported 2-methylnaphthalene with a Y qualifier. All of these results were subsequently qualified as estimated (UJ) during validation due to the known interference.

Field Duplicate Sample Analysis – *acceptable*

Field duplicate pairs SY-DP-3-15/ SY-DP-3-15-1 and SY-PL2-156A/ SY-PL2-11156A-1 were collected and results were comparable.

POLYCHLORINATED BIPHENYLS

The laboratory provided a full data package for the PCB analysis, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for PCB analysis were analyzed by gas chromatography/mass spectrometry (GC/MS) using EPA SW846 Method 8082.

Sample Holding Times– *acceptable*

All samples were prepared and analyzed within 14 days of sample collection (soil samples) or within 7 days of sample collection (water samples).

Laboratory Reporting Limits – *acceptable*

The laboratory achieved the reporting limits (RLs) required by the approved quality assurance project plan (EPI, 2003). The reporting limits were not met in cases in which the samples were analyzed at dilutions due to high concentrations of target compounds. No action was taken.

Instrument Calibration and Tuning– *acceptable*

A review of the instrument calibration was performed against the reference method criteria. All of the calibration criteria were met.

Blank Contamination – *acceptable*

The method blanks were free of target compounds.

Surrogate Recovery – *acceptable*

All surrogate recoveries were within control limits.

Matrix Spike Compound Recovery– *acceptable*

Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were acceptable.

Laboratory Control Sample Recovery – *acceptable*

Laboratory control samples (LCS) were evaluated using limits of 70 percent to 130 percent recovery.

Field Duplicate Sample Analysis

Field duplicate pairs SY-DP-3-15/ SY-DP-3-15-1 and SY-PL2-156A/ SY-PL2-11156A-1 were collected and results were comparable.

INORGANICS

The laboratory provided a full data package for the Inorganic analysis, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for total metals analysis were prepared using EPA Methods 3010A or 200.8, acid digestion. Metals analysis was completed by EPA Methods 6010B and 200.8 and 7471A or 1631E (low level) for mercury.

Sample Holding Times – *acceptable*

All samples were prepared and analyzed within the recommended holding period from the date of collection; 180 days for metals and 28 days for mercury. All holding time criteria were met.

Laboratory Reporting Limits – *acceptable*

The laboratory achieved the reporting limits (RLs) required by the approved quality assurance project plan (EPI, 2003).

Blank Contamination

The method blank and continuing calibration blanks were free of target compounds with the following exceptions:

Samples	Analyte	Qualification
SY-DP-12-15-F	Zinc	U
SY-DP-06-15-F SY-DP-08-15-F SY-DP-07-15-F	Arsenic	U
SY-PL2-112A SY-PL2-912A SY-PL2-112B SY-PL2-113A	Copper	U

The associated field blank (equipment blank SY-PL2-602A-10EB) was free of target analytes.

Laboratory Control Sample Recovery – *acceptable*

LCS/LCSD (blank spike/blank spike duplicate) recoveries were within QC limits of 80 percent to 120 percent.

Matrix Spike/Matrix Spike Duplicate Analysis

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analysis was performed on selected samples in each analytical batch. All MS/MSD recoveries and relative percent differences (RPDs) were acceptable with the following exceptions:

Samples	Analyte	Recovery	Qualification
All soils for HU16	Antimony	29.9%	J or UJ
All soils for HT96	Antimony	36%	J or UJ
All soils for HU77	Antimony	26%, 29%	J or UJ
All soils for HU77	Chromium	147%	J
All soils for HU97	Antimony	30%	UJ

For recoveries that were outside control limits for which sample concentrations were greater than four times the spike concentration, no action was taken. The validation criteria specifies rejection of results in which the MS recovery is <30%. No data were rejected using this criteria since the recoveries are very near the rejection criteria (30%).

Duplicate Analysis- *acceptable*

Duplicate analysis criteria were met.

Interference Check Sample Analysis - *acceptable*

All interference check sample analysis results for total and dissolved metals were within 20% of the true value.

Linear Range Check Standard - *acceptable*

The linear range check standard analyzed for ICP analyses was within ±10%.

ICP Serial Dilution Analysis - *acceptable*

All serial dilution results were <50 times the IDL; no qualifiers were assigned.

Internal Standard Analysis - *acceptable*

Internal standard results were monitored for ICP-MS analysis. All internal standard recoveries were within 30 percent to 120 percent of the standard.

Field Duplicate Sample Analysis

Field duplicate pairs SY-DP-3-15-F/ SY-DP-3-15-F-1 and SY-PL2-156A-F/ SY-PL2-11156A-F-1 were collected and results were comparable.

GENERAL CHEMISTRY

The laboratory provided a full data package for the general chemical parameters, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for general chemical parameters were analyzed using the following methodology:

- Hexavalent Chromium (CR+6) using Standard Method SM3500CR-D,
- Oxidation/Reduction Potential (ORP) using Standard Method SM2580,
- Nitrogen-Ammonia using EPA Method 350.1M,
- Nitrate-nitrogen using EPA Method 3353.2,
- Nitrite-nitrogen using EPA Method 353.2,
- Nitrate+Nitrite (as N) using EPA Method 353.2,
- Sulfate using EPA Method 375.2,
- Sulfide using EPA Method 376.2, and
- Total Organic Carbon using EPA Method 415.1.

Sample Holding Times

All samples were prepared and analyzed within 24 hours for hexavalent chromium and ORP, 28 days for ammonia, sulfate and TOC, 48 hours for nitrate, nitrite and nitrate+nitrite, and 7 days for sulfide with the following exceptions:

- The redox potential holding time was exceeded for sample SY-PL2-955A, resulting in estimated qualification.

Laboratory Reporting Limits – *acceptable*

The laboratory achieved the reporting limits (RLs) required by the approved quality assurance project plan (EPI, 2003).

Instrument Calibration

A review of the instrument calibration was performed against the reference method criteria. All of the calibration criteria were met with the following exceptions:

Sample	Compound	Qualification	Reason
SY-PL2-120A	Sulfide	UJ	CCAL recovery low

Blank Contamination – *acceptable*

The method blanks were free of target compounds. A field blank (equipment blank, DP-SY-4-10EB) was collected and submitted for hexavalent chromium analysis. The sample was free of target analytes.

Matrix Spike Compound Recovery

Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were acceptable with the following exceptions:

Sample	Compound	Qualification	Reason
SY-PL2-120A SY-PL2-154A	Hexavalent Chromium	UJ	Low MS recovery
SY-PL2-153A	Hexavalent Chromium	UJ	Low MS recovery
All soils for HU77	Hexavalent Chromium	UJ	Low MS recovery
SY-DP-01-15	Hexavalent Chromium	UJ	Low MS recovery
SY-PL2-151A	Nitrite-N	J	Low MS recovery
SY-PL2-151A	Nitrate+Nitrite (as N)	UJ	Low MS recovery
SY-PL2-156A-F SY-PL2-151A-F	Hexavalent Chromium	UJ	Low MS recovery
SY-PL2-155A-F	Hexavalent Chromium	UJ	Low MS recovery

Laboratory Control Sample Recovery

Laboratory control samples (LCS) were evaluated using 70 to 130 percent. The following qualification were made for unacceptable LCS recoveries:

Sample	Compound	Qualification	Reason
SY-PL2-120A SY-PL2-154A	Sulfide	UJ	Low LCS recovery
SY-PL2-153A	Sulfide	UJ	Low LCS recovery

Field Duplicate Sample Analysis – *not applicable*

No field duplicate samples were collected for the analysis.

TOTAL PETROLEUM HYDROCARBONS (gasoline, diesel, motor oil)

The laboratory provided a full data package for total petroleum hydrocarbon analysis, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for general chemical parameters were analyzed using the following methodology:

- TPH-gasoline in the toluene – naphthalene range,
- TPH-diesel in the C12-C24 range,
- TPH–motor oil in the C24-C38 range.

Sample Holding Times– *acceptable*

All samples were prepared and analyzed within the recommended holding times: 14 days from collection to analysis for NWTPH-Gx; and 7 days for unpreserved water samples (14 days for soil and preserved water samples) from collection to preparation and 40 days from preparation to analysis for NWTPH-Dx.

Laboratory Reporting Limits – *acceptable*

Reporting limits were no specified in the approved quality assurance project plan. Laboratory limits were considered acceptable.

Instrument Calibration and Tuning– *acceptable*

A review of the instrument calibration was performed. All of the calibration criteria were met.

Blank Contamination – *acceptable*

The method blanks were free of target compounds. An equipment blank was analyzed for the project (sample DP-SY-4-10EB) and was free of target compounds.

Surrogate Recovery – *acceptable*

All surrogate recoveries were within control limits with the following exceptions:

Sample	Compound	Qualification	Reason
Trip blank	NWTPH-g	UJ	Low recovery
SY-PL2-115A	NWTPH-g	UJ	Surr. TFT not recovered due to interference

Matrix Spike Compound Recovery– *acceptable*

Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were acceptable.

Laboratory Control Sample Recovery – *acceptable*

Laboratory control samples (LCS) were evaluated using limits of 70 percent to 130 percent recovery.

Field Duplicate Sample Analysis – *not applicable*

No field duplicate samples were collected for the analysis.

Data Qualifiers

Data qualifiers applied by the laboratory have been removed from the data summary report sheets and superseded by data validation qualifiers as follows:

The following qualifiers were used to modify the data quality and usefulness of individual analytical results.

U - The constituent was analyzed for, but was not detected above the reported sample quantitation limit.

J - The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.

UJ – The constituent was not detected; the associated quantitation limit is an estimated value because quality control criteria were not met.

R – Data are rejected due to significant exceedence of quality control criteria. The analyte may or may not be present. Additional sampling and analysis may be required to determine the presence or absence of the constituent. For statistical reasons, rejected values are not included in the database.

Data Assessment

Data review and validation was performed by an experienced quality assurance chemist independent of the analytical laboratory and not directly involved in the project. This is to certify that I have examined the analytical data and based on the information provided to me by the laboratory, in my professional judgment, the data are acceptable for use except where indicated by data qualifiers, which may modify the usefulness of those individual values.

Christina Jensen
Validator
Validata, LLC

April 14, 2005
Date

Kent M. Angelos
Project Manager
Principal Environmental Scientist

April 19, 2005, Rev: June 22, 2006
Date

REFERENCES

EPA 1999, USEPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA-540/R-99/008, October, 1999.

EPA 1994, USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review, EPA-540-R-02-003, February, 1994

EPI 2003, Interim Measures Work Plan For Sheetpile Structure at Building 2-66, Boeing Plant 2, Seattle/Tukwila, Washington, Prepared by Environmental Partners, Inc. (EPI), October , 2003.

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BOEING PLANT 2 - SOUTH YARD AREA
DATA GAPS INVESTIGATION
DATA VALIDATION QA/QC REVIEW – SUPPLEMENTAL REPORT

An additional set of five water samples and one trip blank sample were collected in May 2005 as part of the Boeing South Yard investigation. Samples were analyzed by Analytical Resources Incorporated (ARI) of Seattle, Washington for semivolatile organic compounds (SVOC and SIM), polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons – gas and diesel range.

Samples were analyzed in accordance with procedures described in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (USEPA SW-846, 3rd edition) 8270C, 8082,* and *Northwest Total Petroleum Hydrocarbon analysis for gasoline and diesel range methodology*

Samples were analyzed and results reported by the laboratory in batch numbers as summarized below:

IC01 (SVOCs, PCBs, TPH-Dx, TPH-g):

SY-DP-11-19	SY-DP-12-15	SY-PL2-602A
SY-PL2-151A	SY-PL2-152A	Trip Blank

Quality assurance/quality control (QA/QC) reviews of laboratory data were performed in the laboratory in accordance with the laboratory quality assurance program plan. The data validation QA/QC review focused primarily on laboratory result summary sheets and quality control summary sheets to ensure that work plan data quality objectives were met for the project. Data validation was conducted in accordance with the criteria outlined in the National Functional Guidelines for Organic Data Review (EPA 1999), modified to include method specific requirements of the laboratory analytical methods. Raw data sheets were reviewed as necessary to confirm conditions reported and to support application of qualifiers to analytical results.

The validation level for the data is Level 2, as described in the workplan (EPI, 2003). The following is a summary of quality control elements associated with each analytical fraction and the status of that element as a result of the data validation process.

SEMIVOLATILE ORGANIC COMPOUNDS

The laboratory provided a full data package for the full list and SIM SVOC analyses, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for SVOC analysis were analyzed by gas chromatography/mass spectrometry (GC/MS) using EPA SW846 Method 8270C.

Sample Holding Times– *acceptable*

All samples were extracted within 7 days for waters (14 for soils) of sample collection and analyzed within 40 days from collection to analysis.

Laboratory Reporting Limits – *acceptable*

The laboratory achieved the reporting limits (RLs) required by the approved quality assurance project plan (EPI, 2003). The reporting limits were not met in cases in which the samples were analyzed at dilutions due to high concentrations of target compounds. No action was taken.

Instrument Calibration and Tuning

A review of the instrument calibration was performed. All of the calibration criteria were met with the following exceptions:

Sample	Compound	Qualification	Reason
SY-PL2-151A SY-PL2-152A	Benzoic acid, hexachlorocyclopentadiene, 4-nitrophenol, indeno(1,2,3-cd) pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene	UJ	%D >25%

Blank Contamination

The method and trip blanks were free of contamination with the following exceptions:

Sample	Compound	Qualification	Reason
SY-PL2-151A SY-PL2-152A	Di-n-butylphthalate	U	Method blank contamination

Surrogate Recovery – *acceptable*

All surrogate recoveries were within control limits.

Laboratory Control Sample Recovery – *acceptable*

The laboratory did not analyze matrix spike or spike duplicate samples. The Laboratory control samples (LCS) were evaluated using 70 to 130 percent for review of laboratory accuracy.

Internal Standards Recovery – *acceptable*

The internal standard criteria were met.

POLYCHLORINATED BIPHENYLS

The laboratory provided a full data package for the PCB analysis, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for PCB analysis were analyzed by gas chromatography/mass spectrometry (GC/MS) using EPA SW846 Method 8082.

Sample Holding Times– *acceptable*

All samples were prepared and analyzed within 7 days of sample collection.

Laboratory Reporting Limits – *acceptable*

The laboratory achieved the reporting limits (RLs) required by the approved quality assurance project plan (EPI, 2003).

Instrument Calibration and Tuning– *acceptable*

A review of the instrument calibration was performed. All of the calibration criteria were met.

Blank Contamination – *acceptable*

The method blanks were free of target compounds. No field blanks were collected and analyzed for this set of samples.

Surrogate Recovery – *acceptable*

All surrogate recoveries were within control limits.

Laboratory Control Sample Recovery – *acceptable*

Laboratory control samples (LCS) were evaluated using criteria of 70 to 130 percent.

TOTAL PETROLEUM HYDROCARBON (GASOLINE & DIESEL)

The laboratory provided a full data package for total petroleum hydrocarbon analysis, the items reviewed during validation are summarized below.

Analytical Methods – *acceptable*

Samples for general chemical parameters were analyzed using the following methodology:

- TPH-gasoline in the toluene – naphthalene range,
- TPH-Diesel in the C12-C24 range,
- TPH – Motor Oil in the C24-C38 range.

Sample Holding Times– *acceptable*

All samples were prepared and analyzed within the recommended holding times: 14 days from collection to analysis for NWTPH-Gx (preserved water samples), and 7 days for water (14 days for soil) from collection to preparation and 40 days from preparation to analysis for NWTPH-Dx.

Laboratory Reporting Limits – *acceptable*

Reporting limits were no specified in the approved quality assurance project plan. Laboratory limits were considered acceptable.

Instrument Calibration – *acceptable*

A review of the instrument calibration was performed. All of the calibration criteria were met.

Blank Contamination – *acceptable*

The method blanks were free of target compounds. No field blanks were collected and analyzed with this set of samples.

Surrogate Recovery – *acceptable*

All surrogate recoveries were within control limits.

Laboratory Control Sample Recovery – *acceptable*

Laboratory control samples (LCS) were evaluated using the laboratory established limits.

Data Qualifiers

Data qualifiers applied by the laboratory have been removed from the data summary report sheets and superseded by data validation qualifiers as follows:

The following qualifiers were used to modify the data quality and usefulness of individual analytical results.

U - The constituent was analyzed for, but was not detected above the reported sample quantitation limit.

J - The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.

UJ – The constituent was not detected; the associated quantitation limit is an estimated value because quality control criteria were not met.

R – Data are rejected due to significant exceedence of quality control criteria. The analyte may or may not be present. Additional sampling and analysis may be required to determine the presence or absence of the constituent. For statistical reasons, rejected values are not included in the database.

Data Assessment

Data review and validation was performed by an experienced quality assurance chemist independent of the analytical laboratory and not directly involved in the project. This is to certify that I have examined the analytical data and based on the information provided to me by the laboratory, in my professional judgment, the data are acceptable for use except where indicated by data qualifiers, which may modify the usefulness of those individual values.

Christina Jensen
Validator
Validata, LLC

June 14, 2005
Date

Kent M. Angelos
Project Manager
Principal Environmental Scientist

June 14, 2005, Rev: June 22, 2006
Date

REFERENCES

EPA 1999, USEPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA-540/R-99/008, October, 1999.

EPA 1994, USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review, EPA-540-R-02-003, February, 1994

EPI 2003, Interim Measures Work Plan For Sheetpile Structure at Building 2-66, Boeing Plant 2, Seattle/Tukwila, Washington, Prepared by Environmental Partners, Inc. (EPI), October , 2003.

INORGANIC DATA VALIDATION SUMMARY

PROJECT: 013-1646.002.200	SITE: Bayway PZ DG - South Yard
LABORATORY: ARL	SDG: H1916
SAMPLES/MATRIX/ANALYSES: SY-PLZ-603A-1.5	
SY-PLZ-603A-5	
SY-PLZ-603A-10	

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP (total pp mg/kg)	~~AA~~	HG	CYANIDE	OTHER
1. Data completeness	O		O		
2. Holding Times	O		O		
3. Calibration	O		O		
4. Blanks	O		O		
5. ICS	O		—		
6. LCS	O		—		
7. Duplicate RPD	O		O		
8. Spike Recovery	O		O		
9. MSA	—		—		
10. Other QC	O		—		
11. Field Duplicates	—		—		
12. Result Verification	O		O		
13. Overall Assessment	O		O		

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

Validated by: Christin Jensen Date: 3/29/05

Reviewed by: [illegible] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
__ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
__ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:_____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 80%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

__Detects reported in ICB/CCB, list:_____

__Detects in preparation blanks, list:_____

__Detects in field blanks, list:_____

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results:_____

5. Interference Checks (check all that apply) . . . . . ✓ ___

✓ ICS A/B Recoveries Acceptable
__Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ICS %R >120%, results >IDL estimated (J)
__ICS %R 50-79%, results >IDL estimated (J)
__ICS %R 50-79%, results <IDL estimated (UJ)
__ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:_____

6. Laboratory Control Samples (check all that apply) . . . . . ✓ ___

✓ LCS %R 80-120
__LCS %R 50-79% or >120%, results >IDL estimated (J)
__LCS %R 50-79% and results <IDL estimated (UJ)
__LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Duplicate (check all that apply)	___	✓

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
___ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results: Lab duplicate criteria exceeded for chromium, magnesium, nickel - qualified J for S4-PL2-603A-1.5, -5, -10

8. Spike Recovery (check all that apply)	✓	___

✓ Spike %R with 75-125%
✓ Spike %R 30-74%, >125%, results >IDL estimated (J)
___ Spike %R 30-74% results <IDL estimated (UJ)
___ Spike %R <30%, results <IDL rejected (UR)
___ Field blank used for spike analysis

Comments/Qualified Results: Sb recovery low (36%), Sb qualified UJ for S4-PL2-603A-1.5, -5, -10
Al, Mg, Ca, Na, no action since sample >4x spike.

9. GFAA Performance	___	___

___ Duplicate injection RSD <20%
___ Duplicate injection RSD >20%, results >CRDL estimated (J)
___ Analytical spike %R 85-115%
___ Analytical spike %R 40-85%, results >IDL estimated (J)
___ Analytical spike %R 10-40%, results <IDL estimated (UJ)
___ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial dilution run - ok.

11. Field Duplicates		

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: None in SDG

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: Data usable as qualified.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Percent Total Solids: 93.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/05	6010B	03/04/05	7429-90-5	Aluminum	5	14,400	
3050B	03/03/05	6010B	03/04/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/03/05	6010B	03/04/05	7440-38-2	Arsenic	5	7	
3050B	03/03/05	6010B	03/04/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/03/05	6010B	03/04/05	7440-43-9	Cadmium	0.2	0.2	
3050B	03/03/05	6010B	03/04/05	7440-47-3	Chromium	0.5	21.6	J
3050B	03/03/05	6010B	03/04/05	7440-50-8	Copper	0.2	30.0	
3050B	03/03/05	6010B	03/04/05	7439-92-1	Lead	2	9	
3050B	03/03/05	6010B	03/04/05	7439-95-4	Magnesium	5	4,610	J
CLP	03/03/05	7471A	03/07/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/03/05	6010B	03/04/05	7440-02-0	Nickel	1	17	J
3050B	03/03/05	6010B	03/04/05	7782-49-2	Selenium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-28-0	Thallium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-62-2	Vanadium	0.3	55.1	
3050B	03/03/05	6010B	03/04/05	7440-66-6	Zinc	0.6	48.5	

U-Analyte undetected at given RL
RL-Reporting Limit

3/29/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized: BL
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Percent Total Solids: 93.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/05	6010B	03/04/05	7429-90-5	Aluminum	5	10,600	
3050B	03/03/05	6010B	03/04/05	7440-36-0	Antimony	5	5	U UJ ✓
3050B	03/03/05	6010B	03/04/05	7440-38-2	Arsenic	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/03/05	6010B	03/04/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/03/05	6010B	03/04/05	7440-47-3	Chromium	0.5	20.2	J ✓
3050B	03/03/05	6010B	03/04/05	7440-50-8	Copper	0.2	13.6	
3050B	03/03/05	6010B	03/04/05	7439-92-1	Lead	2	4	
3050B	03/03/05	6010B	03/04/05	7439-95-4	Magnesium	5	5,120	J ✓
CLP	03/03/05	7471A	03/07/05	7439-97-6	Mercury	0.04	0.05	
3050B	03/03/05	6010B	03/04/05	7440-02-0	Nickel	1	23	J ✓
3050B	03/03/05	6010B	03/04/05	7782-49-2	Selenium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-28-0	Thallium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-62-2	Vanadium	0.3	38.1	
3050B	03/03/05	6010B	03/04/05	7440-66-6	Zinc	0.6	29.5	

U-Analyte undetected at given RL
RL-Reporting Limit

3/29/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Percent Total Solids: 93.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/05	6010B	03/04/05	7429-90-5	Aluminum	5	12,800	
3050B	03/03/05	6010B	03/04/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/03/05	6010B	03/04/05	7440-38-2	Arsenic	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-41-7	Beryllium	0.1	0.2	
3050B	03/03/05	6010B	03/04/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/03/05	6010B	03/04/05	7440-47-3	Chromium	0.5	25.9	J
3050B	03/03/05	6010B	03/04/05	7440-50-8	Copper	0.2	14.7	
3050B	03/03/05	6010B	03/04/05	7439-92-1	Lead	2	3	
3050B	03/03/05	6010B	03/04/05	7439-95-4	Magnesium	5	6,410	J
CLP	03/03/05	7471A	03/07/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/03/05	6010B	03/04/05	7440-02-0	Nickel	1	30	J
3050B	03/03/05	6010B	03/04/05	7782-49-2	Selenium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/03/05	6010B	03/04/05	7440-28-0	Thallium	5	5	U
3050B	03/03/05	6010B	03/04/05	7440-62-2	Vanadium	0.3	41.7	
3050B	03/03/05	6010B	03/04/05	7440-66-6	Zinc	0.6	29.4	

U-Analyte undetected at given RL
RL-Reporting Limit

S 3/29/05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.: 03-1646-002.200	SITE: Boeing P2D South Yard
LABORATORY: ABI	SDG: H196

SAMPLES/MATRIX/ANALYSES: S4-PL2-603A-1.5
S4-PL2-603A-5
S4-PL2-603A-10
S4-PL2-603A-10EB TPHg only
S4-PL2-603A-10EB DX only

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC DX (NWTPH)	GC (NWTPH)
1. Data Completeness	O	O	O				O	O
2. Holding Times	O	O	O				O	O
3. GC/MS Tuning	O	O	—				—	—
4. Instrument Performance	—	—	O				—	O
5. Calibrations	O	O	O				O	O
6. Blanks	O	O	O				O	O
7. Surrogates	O	O	O				O	O
8. MS/MSD VOA/BNA	O	O	O				O	O
9. Internal Standards	O	O	—				—	—
10. Compound Identification	O	O	O				O	O
11. Tent. Ident. Cmpds (TIC)	—						—	—
12. Result Verification	O	O	O				O	O
13. Detection Limits	O	O	O				O	O
14. System Performance	O	O	O				O	O
15. Overall Assessment	O	O	O				O	O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: TB not listed on COC. ND.
NWTPH-Dx tol to match
Diesel range C12-C24
Motor oil C24-C38

Validated by: Christin Jensen Date: 3/29/05
Reviewed by: [signature] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

Acceptable Yes / No

1. Data Completeness (check if present) . . . . . ✓ ___

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
___ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply) . . . . . ✓ ___

✓ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
___ BNA samples extracted in 7 days (14 days soils) from collection
___ BNA extracts analyzed in 40 days from extraction
___ Pest/PCB samples extracted in 7 days (14 days soils) from collection
___ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: _____

3. GC/MS Tuning . . . . . ✓ ___

✓ GC/MS tuning performed
___ GC/MS tuning within control limits
___ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [if no, R detects]
✓ Standard Checks within Retention Time Window [if no, check against expanded windows and if outside, qualify R/UR]
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓ DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results: _____

5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
__RSD ≤10% for performance checks (if no, J detects)
__All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
__Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

Comments/Qualified Results: 20725 none for V.
SVOA: ICAL 730 3/2/05 (32%) 4 dinitro-2-methylphenol UJ for Syl C2-60314-1.5, -5, -10
SVOA CCAL 3/11/05 11:40 20725 for hexachlorocyclop. UJ
SVOA CCAL 3/14/05 12:28 20725 benzalc, dib(ah)anthr, benz(ghi)peryl. - no action
these same sites

6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet) _____
__TICs detected (list or attach summary sheet) _____
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet) _____
Qualify sample results <5x above as U at SQL

Comments/Qualified Results: VOA-B-all ND-ok

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

7. Surrogates. . . . . ✓ ___

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed V, SV, Pest
✓ Surrogate recoveries within method control limits
___ Surrogate recoveries above method control limits (J detects only)
___ Surrogate recoveries below method control limits but ≥10% (J/UJ)
___ Surrogate recoveries below 10% (J/UR)

8. Matrix Spike/Matrix Spike Duplicate . . . . . ✓ ___

✓ MS/MSD analyzed
✓ MS/MSD recoveries within method control limits
___ MS/MSD recoveries above method control limits (J detects only)
___ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
___ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: LCS/LCSD MN for VOA soils-ok., SV MS/MSD - SV, Sim
(RPD 730) High RPD for SVOA spikes - lab notes MSD blown down too low, resulting in MSD + Surr. loss. ~~No~~ no action was taken.

9. Internal Standards Performance . . . . . ✓ ___

✓ Internal standards added to all samples and QC ✓
✓ Internal standard areas within control limits
___ Internal standard areas outside control limits but greater than 10% (J/UJ)
___ Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

10. Compound Identification . . . . . ✓ ___

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
___ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R) See below:

Comments/Qualified Results: Lab reported dibenz(a,h) anthracene as 12M ug/kg for S4-NL2-603A-S - qual J to indicate lab notes it is an estimated value w/ a low spectral match.

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freone, phthalates <100 ug/L or <4000 ug/Kg, cyclohexane derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
___Qualify valid TICs as JN

Comments/Qualified Results: ___

12. Result Verification . . . . . ✓ ___

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results: ___

13. Detection Limits . . . . . ✓ ___

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results: ___

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results: ___

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

Recalc VOA - ND - no recalc

SVOA [illegible] phenanthrene 108 ug/kg .5 mk
3/11/05 analysis. 20 RF 1.22 7.66 ug dry
28097 x 20 x 500 = 166 4.7% moist .953
28410 x 1.22 x 8.04 x
37163 8.43

recalc SW: 47967 phen. 14 ug/kg 3/7/05

240648 x 2 x 500 = = 11.2 rounding ok.
182944 x 10.33 1.129

pesticides - no results ND.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Received: 02/28/05

Data Release Authorized:
Reported: 03/15/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-030305	Method Blank	03/03/05	03/05/05	1.0	Diesel	< 5.0 U
05-3839	HC ID: ---		FID3B		Motor Oil	< 5.0 U
					o-Terphenyl	89.1%
HT96A	SY-PL2-603A-1.5	03/03/05	03/05/05	1.0	**Diesel**	**34**
05-3839	HC ID: **DRO/RRO**		FID3B		**Motor Oil**	**82**
					o-Terphenyl	74.2%
HT96B	SY-PL2-603A-5	03/03/05	03/05/05	1.0	**Diesel**	**15**
05-3840	HC ID: **MOTOR OIL**		FID3B		**Motor Oil**	**78**
					o-Terphenyl	73.6%
HT96C	SY-PL2-603A-10	03/03/05	03/05/05	1.0	**Diesel**	**16**
05-3841	HC ID: RRO		FID3B		**Motor Oil**	**57**
					o-Terphenyl	72.9%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Received: 02/28/05

Data Release Authorized:
Reported: 03/14/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-030405	Method Blank	03/04/05	03/11/05	1.0	Diesel	< 0.25 U
05-3842			FID3B		Motor Oil	< 0.25 U
					HC ID	---
					o-Terphenyl	83.1%
HT96D	SY-PL2-603A-10EB	03/04/05	03/11/05	1.0	Diesel	< 0.25 U
05-3842			FID3B		Motor Oil	< 0.25 U
					HC ID	---
					o-Terphenyl	81.1%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

3/29/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Soil

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Data Release Authorized:
Reported: 03/09/05

ARI ID	Client ID	Analysis Date	Basis	Range	Result mg/kg
MB-030405	Method Blank	03/04/05	---	Gasoline	< 5.0 U
05-3839		PID2		HC ID	---
				Trifluorotoluene	104%
				Bromobenzene	92.0%
HT96A	SY-PL2-603A-1.5	03/04/05	Dry	Gasoline	< 6.7 U
05-3839		PID2		HC ID	---
				Trifluorotoluene	107%
				Bromobenzene	107%
HT96B	SY-PL2-603A-5	03/04/05	Dry	Gasoline	< 6.4 U
05-3840		PID2		HC ID	---
				Trifluorotoluene	112%
				Bromobenzene	104%
HT96C	SY-PL2-603A-10	03/04/05	Dry	Gasoline	< 6.7 U
05-3841		PID2		HC ID	---
				Trifluorotoluene	106%
				Bromobenzene	99.4%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

3/29/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

Data Release Authorized:
Reported: 03/09/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-030305	Method Blank	03/03/05		Gasoline	< 0.25 U
05-3842		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	99.2%
HT96D	SY-PL2-603A-10EB	03/03/05		Gasoline	< 0.25 U
05-3842		PID2		HC ID	---
				Trifluorotoluene	108%
				Bromobenzene	99.3%
HT96E	TRIP BLANK	03/03/05		Gasoline	< 0.25 U
05-3843		PID2		HC ID	---
				Trifluorotoluene	102%
				Bromobenzene	102%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

3/29/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 16:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.7
Percent Moisture: 12.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	38	< 38 U
53469-21-9	Aroclor 1242	38	< 38 U
12672-29-6	Aroclor 1248	38	< 38 U
11097-69-1	Aroclor 1254	38	< 38 U
11096-82-5	Aroclor 1260	38	< 38 U
11104-28-2	Aroclor 1221	38	< 38 U
11141-16-5	Aroclor 1232	38	< 38 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	116%
Tetrachlorometaxylene	88.8%

3/9/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 17:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 11.5 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	35	< 35 U
53469-21-9	Aroclor 1242	35	< 35 U
12672-29-6	Aroclor 1248	35	< 35 U
11097-69-1	Aroclor 1254	35	< 35 U
11096-82-5	Aroclor 1260	35	< 35 U
11104-28-2	Aroclor 1221	35	< 35 U
11141-16-5	Aroclor 1232	35	< 35 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	130%
Tetrachlorometaxylene	101%

03/29/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/09/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 17:29
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	36	< 36 U
53469-21-9	Aroclor 1242	36	< 36 U
12672-29-6	Aroclor 1248	36	< 36 U
11097-69-1	Aroclor 1254	36	< 36 U
11096-82-5	Aroclor 1260	36	< 36 U
11104-28-2	Aroclor 1221	36	< 36 U
11141-16-5	Aroclor 1232	36	< 36 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	131%
Tetrachlorometaxylene	97.0%

FORM I

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 15:15
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.66 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 4.7 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	6.5	14
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	6.5	59
120-12-7	**Anthracene**	6.5	40
206-44-0	**Fluoranthene**	6.5	150
129-00-0	**Pyrene**	6.5	140
56-55-3	**Benzo(a)anthracene**	6.5	72
218-01-9	**Chrysene**	6.5	82
205-99-2	**Benzo(b)fluoranthene**	6.5	65
207-08-9	**Benzo(k)fluoranthene**	6.5	56
50-32-8	**Benzo(a)pyrene**	6.5	72
193-39-5	**Indeno(1,2,3-cd)pyrene**	6.5	45
53-70-3	**Dibenz(a,h)anthracene**	6.5	12 M J
191-24-2	**Benzo(g,h,i)perylene**	6.5	50
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracene	74.0%

FORM I

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 15:41
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.86 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.7 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	29
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	56.0%
d14-Dibenzo(a,h)anthracene	65.3%

FORM I

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/07/05 14:49
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 12.4 %
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	**Phenanthrene**	**6.3**	**14**
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	**Fluoranthene**	**6.3**	**21**
129-00-0	**Pyrene**	**6.3**	**20**
56-55-3	**Benzo(a)anthracene**	**6.3**	**6.3**
218-01-9	**Chrysene**	**6.3**	**9.5**
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.3%
d14-Dibenzo(a,h)anthracene	78.7%

FORM I

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/11/05 22:18
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.4%
pH: 6.7

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Date Analyzed: 03/11/05 22:18

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U UJ
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	48.4%	2-Fluorobiphenyl	52.8%
d14-p-Terphenyl	62.4%	d4-1,2-Dichlorobenzene	50.0%
d5-Phenol	50.1%	2-Fluorophenol	38.1%
2,4,6-Tribromophenol	49.3%	d4-2-Chlorophenol	46.9%

9 3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/11/05 22:52
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.66 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 4.7%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

5/31/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-5
SAMPLE

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Date Analyzed: 03/11/05 22:52

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U UJ✓
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	**Phenanthrene**	**65**	**68**
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	**Di-n-Butylphthalate**	**65**	**80**
206-44-0	**Fluoranthene**	**65**	**170**
129-00-0	**Pyrene**	**65**	**180**
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	**Benzo(a)anthracene**	**65**	**78**
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	**Chrysene**	**65**	**91**
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	**Benzo(k)fluoranthene**	**65**	**84**
50-32-8	**Benzo(a)pyrene**	**65**	**80**
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.8%	2-Fluorobiphenyl	61.2%
d14-p-Terphenyl	67.2%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	58.9%	2-Fluorophenol	53.1%
2,4,6-Tribromophenol	64.3%	d4-2-Chlorophenol	60.0%

SJ 3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/15/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Date Extracted: 03/04/05
Date Analyzed: 03/11/05 23:26
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.86 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.7%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

93/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A-10
SAMPLE

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Date Analyzed: 03/11/05 23:26

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U UJ ✓
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	52.8%	2-Fluorobiphenyl	56.8%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	53.9%	2-Fluorophenol	51.5%
2,4,6-Tribromophenol	58.4%	d4-2-Chlorophenol	54.9%

G 3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-603A-1.5
SAMPLE

Lab Sample ID: HT96A
LIMS ID: 05-3839
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 18:22

Sample Amount: 4.71 g-dry-wt
Percent Moisture: 9.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.3	< 5.3 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.3	< 5.3 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.3	< 5.3 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.3	< 5.3 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3	< 5.3 U
591-78-6	2-Hexanone	5.3	< 5.3 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.1%
d8-Toluene	111%
Bromofluorobenzene	88.9%
d4-1,2-Dichlorobenzene	101%

FORM I

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-603A-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HT96B
LIMS ID: 05-3840
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 18:49

Sample Amount: 5.04 g-dry-wt
Percent Moisture: 5.5%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.4%
d8-Toluene	107%
Bromofluorobenzene	90.7%
d4-1,2-Dichlorobenzene	102%

FORM I

3/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-603A-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HT96C
LIMS ID: 05-3841
Matrix: Soil
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/28/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 19:17

Sample Amount: 4.51 g-dry-wt
Percent Moisture: 9.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	Acetone	5.5	< 5.5 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.5	< 5.5 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.5	< 5.5 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5 U
591-78-6	2-Hexanone	5.5	< 5.5 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.1%
d8-Toluene	108%
Bromofluorobenzene	87.0%
d4-1,2-Dichlorobenzene	102%

FORM I

93/29/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HT96E
LIMS ID: 05-3843
Matrix: Water
Data Release Authorized:
Reported: 03/08/05

QC Report No: HT96-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 01/18/05
Date Received: 02/28/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/07/05 17:50

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.6%
d8-Toluene	111%
Bromofluorobenzene	88.9%
d4-1,2-Dichlorobenzene	101%

FORM I

53/29/05

INORGANIC DATA VALIDATION SUMMARY

PROJECT: Boeing Delta Gapu	SITE: P2 DG South Yard
LABORATORY: ABC	SDG: HU16
SAMPLES/MATRIX/ANALYSES: Soil + EB	
SY-P2-602A-10	SY-P2-601A-10
SY-P2-602A 10EB	SY-P2-602A-1.5
SY-P2-601A-1.5	SY-P2-602A-5
SY-P2 601A-5	

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP 601DB	AA	HG 7471A	CYANIDE	OTHER
1. Data completeness	O		O		
2. Holding Times	O		O		
3. Calibration	O		O		
4. Blanks	O		O		
5. ICS	O		—		
6. LCS	O		—		
7. Duplicate RPD	O		O		
8. Spike Recovery	O		O		
9. MSA	—		—		
10. Other QC	O		—		
11. Field Duplicates	—		—		
12. Result Verification	O		O		
13. Overall Assessment	O		O		

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

EB - ND.

Validated by: [signature] Date: 3/29/05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in < 28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:_____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 90-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

✓ Detects reported in ICB/CCB, list: _____

__ Detects in preparation blanks, list: _____

__ Detects in field blanks, list: _____

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results: _____

	Yes	No
5. Interference Checks (check all that apply)	✓	

✓ ICS A/B Recoveries Acceptable
__ Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ ICS %R >120%, results >IDL estimated (J)
__ ICS %R 50-79%, results >IDL estimated (J)
__ ICS %R 50-79%, results <IDL estimated (UJ)
__ ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results: _____

	Yes	No
6. Laboratory Control Samples (check all that apply)	✓	

✓ LCS %R 80-120
__ LCS %R 50-79% or >120%, results >IDL estimated (J)
__ LCS %R 50-79% and results <IDL estimated (UJ)
__ LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results: _____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
7. Duplicate (check all that apply)	✓	

__Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
✓ Duplicate range is within, ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	No
8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125% see below
✓ Spike %R 30-74%, >125%, results >IDL estimated (J)
✓ Spike %R 30-74% results <IDL estimated (UJ)
__Spike %R <30%, results <IDL rejected (UR)
__Field blank used for spike analysis

Comments/Qualified Results:
Sb %R = 29.9%R J, UJ All ~~soils~~ samples
Al spl > 4x spike - no action.

9. GFAA Performance		

__Duplicate injection RSD <20%
__Duplicate injection RSD >20%, results >CRDL estimated (J)
__Analytical spike %R 85-115%
__Analytical spike %R 40-85%, results >IDL estimated (J)
__Analytical spike %R 10-40%, results <IDL estimated (UJ)
__Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:
NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: LCS ok. Soil & water Serial Dil. ok.

11. Field Duplicates	✓	

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: none in package

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: Recalc HHLLC Al 11,800 1054g

$\frac{101 \text{ mg/L} \times 50}{.858 \times 1.054} = 11{,}800$ 50 ml ok.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 81.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	6	**11,800**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	6	6	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.6	**13.5**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**17.8**	
3050B	03/07/05	6010B	03/09/05	**7439-92-1**	**Lead**	2	**4**	
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	6	**2,840**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**10**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	6	6	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.4	**44.2**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.7	**28.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

3/30/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/07/05	6010B	03/09/05	7429-90-5	Aluminum	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7440-36-0	Antimony	0.05	0.05	U UJ
200.8	03/07/05	200.8	03/08/05	7440-38-2	Arsenic	0.0002	0.0002	U
3010A	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.001	0.001	U
3010A	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/07/05	6010B	03/09/05	7440-47-3	Chromium	0.005	0.005	U
200.8	03/07/05	200.8	03/08/05	7440-50-8	Copper	0.0005	0.0005	U
200.8	03/07/05	200.8	03/08/05	7439-92-1	Lead	0.001	0.001	U
3010A	03/07/05	6010B	03/09/05	7439-95-4	Magnesium	0.05	0.05	U
7470A	03/07/05	7470A	03/07/05	7439-97-6	Mercury	0.0001	0.0001	U
200.8	03/07/05	200.8	03/08/05	7440-02-0	Nickel	0.0005	0.0005	U
3010A	03/07/05	6010B	03/09/05	7782-49-2	Selenium	0.05	0.05	U
200.8	03/07/05	200.8	03/08/05	7440-22-4	Silver	0.0002	0.0002	U
3010A	03/07/05	6010B	03/09/05	7440-28-0	Thallium	0.05	0.05	U
3010A	03/07/05	6010B	03/09/05	7440-62-2	Vanadium	0.003	0.003	U
3010A	03/07/05	6010B	03/09/05	7440-66-6	Zinc	0.006	0.006	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-601A-1.5
SAMPLE

Lab Sample ID: HU16E
LIMS ID: 05-3975
Matrix: Soil
Data Release Authorized: MC
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 97.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	**8,730**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	UUJ
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	**11.4**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**12.2**	
3050B	03/07/05	6010B	03/09/05	**7439-92-1**	**Lead**	2	**9**	
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	**3,070**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**10**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	**43.2**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	**25.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

53/30/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-601A-5
SAMPLE

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 95.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	**8,500**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	**10.6**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**9.2**	
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	2	U
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	**2,500**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**7**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	**40.1**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	**21.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

G 3/30/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-601A-10
SAMPLE

Lab Sample ID: HU16G
LIMS ID: 05-3977
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 79.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	6	**11,900**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	6	6	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.6	**13.0**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**14.2**	
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	2	U
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	6	**2,560**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	6	6	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	6	6	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.4	**48.8**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.7	**23.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

SG 3/30/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 97.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	**7,870**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	**12.5**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**9.5**	
3050B	03/07/05	6010B	03/09/05	**7439-92-1**	**Lead**	2	**5**	
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	**2,540**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	**42.1**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	**23.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

3/30/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: **SY-P2-602A-5**
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Percent Total Solids: 88.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/05	6010B	03/09/05	**7429-90-5**	**Aluminum**	5	**8,400**	
3050B	03/07/05	6010B	03/09/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/07/05	6010B	03/09/05	7440-38-2	Arsenic	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/07/05	6010B	03/09/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/05	6010B	03/09/05	**7440-47-3**	**Chromium**	0.5	**10.3**	
3050B	03/07/05	6010B	03/09/05	**7440-50-8**	**Copper**	0.2	**13.0**	
3050B	03/07/05	6010B	03/09/05	7439-92-1	Lead	2	2	U
3050B	03/07/05	6010B	03/09/05	**7439-95-4**	**Magnesium**	5	**1,970**	
CLP	03/07/05	7471A	03/10/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/05	6010B	03/09/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/07/05	6010B	03/09/05	7782-49-2	Selenium	5	5	U
3050B	03/07/05	6010B	03/09/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/07/05	6010B	03/09/05	7440-28-0	Thallium	5	5	U
3050B	03/07/05	6010B	03/09/05	**7440-62-2**	**Vanadium**	0.3	**35.0**	
3050B	03/07/05	6010B	03/09/05	**7440-66-6**	**Zinc**	0.6	**17.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

3/30/05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.: 013-1646-002.200	SITE: PZ06 - South Yard
LABORATORY: AKT	SDG: HU16

SAMPLES/MATRIX/ANALYSES: 6 soil, 2 water 1 TB.

SY-PZ-602A-1.5	SY-PZ-601A-1.5	TRIP Blank
SY-PZ-602A-5	SY-PZ-601A-5	
SY-PZ-602A-10	SY-PZ-601A-10	
SY-PZ-602A-10FB	SY-PZ-601A-FB (VOC only)	

DATA ASSESSMENT SUMMARY

Review Item	VOA 8260B	BNA 8270C	PEST/PCB 8082	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: TB not written on COC (2/24/05) - ND (OK)

Validated by: [signature] Date: 3/28/05

Reviewed by: [signature] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
✓ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply)	✓	

__ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: _____

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed VOA, SVOA
✓ GC/MS tuning within control limits
__ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

Acceptable Yes / No

4. Instrument Performance . . . . . ✓ 7/28/05

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [if no, R detects]
__Standard Checks within Retention Time Window [if no, check against expanded windows and if outside, qualify. R/UR]
__DDT and/or Endrin Breakdowns >20% [J/UR DDT and Endrin, NJ all breakdown product hits]
✓ DBC, TCMX or DCBP retention time checks within SOW limits [if no, R/UR]

Comments/Qualified Results:

5. Initial and Continuing Calibration . . . . . ✓ __

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds [if no, J/UR]
✓ Initial calibration RSDs ≤30% for all compounds [if no, J/UJ]
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds [if no, J/UR]
✓ Continuing calibration %Ds ≤25% for all compounds [if no, J/UJ]
Pesticide/PCB data
__RSD ≤10% for performance checks [if no, J detects]
__All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
__Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) [if no, J all detects]

Comments/Qualified Results:

VOA: 2 CWE in ICAL RF = .04 (3/4/05)
VOA CCAL 3/7/05 (%D>25 Cmeth) EB, TB 'R' 2CWE, 'UJ' Cmeth.
(RF<.05 2CWE)
CCAL 3/14/05 %D>25 Carb Dsul., vinyl ace., 4 Me 2P, Ebenz, Styrene

6. Blanks . . . . . ✓ __

✓ Method blanks analyzed VOA ok.
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected [list or attach summary sheet]
__TICs detected [list or attach summary sheet]
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected [list or attach summary sheet]
Qualify sample results <5x above as U at SQL

All SVOA soils J, UJ for these

Comments/Qualified Results:
EB - 3.2 ug/L Acetone 'U' acetone for SY-PZ-601A-1.5
SY-PZ-601A-5
SVOA EB ok.

24DNT
2-nitroan.
hexachlorocyclop.
SVOA CCAL 3/14/05 >25
bis(2chloroethyl)ether
benzoic ac.
22(oxybis)1chlp.
4,6dinitro-2-mep.
nitrobenz.
Bromophenyl phenyl
bis(2ethylhexyl)phthalate

J, UJ these cmpds for SY-PZ-602A-1.5
602A-5
602A-10
601A-1.5
601A-5
601A-10

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
__ Surrogate recoveries within method control limits VOA / SVOA, PCB
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate	✓	

✓ MS/MSD analyzed SVOA ok. / PCB ok
✓ MS/MSD recoveries within method control limits See below VOA VOA LCS / PCB ok.
✓ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: Low recov using acetone & 50-150 (46 & 38%) MS for ebenzy & 135% (87 + 125) for MS sample SY-P2-6001A-5 No action for ebenzy - ND in Smpl. V. Acetone UJ for SY-P2-6001A-5

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits VOA, SVOA
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
✓ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
11. Tentatively Identified Compounds (TIC)	___	___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
___Qualify valid TICs as JN

Comments/Qualified Results: not TICs

12. Result Verification	✓	___

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits	✓	___

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance	✓	___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

HRWQB
metals 88.4
VOA 83.3
SVOA 94.5
SV PNA 94.5

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

VOA recalc HWQB TCE .8332 4.316 g dry. 130 ug/kg.
3/14/05 302572 RF .554
15 Changeds 315885 (50)
302572 x 50 / 315888 x .554 = 135 ug/kg

SVOA Sam HWQB phenanthrene reported 8.6 ug/kg
3/9/05 .9452
16732 x 90 / 1905260 1182 x 5.5 = 8.07.5 x 2 = 8.6 ug/kg.

no PCB recalc - all ND

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-602A-1.5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 14:26

Sample Amount: 4.94 g-dry-wt
Percent Moisture: 4.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.1	< 5.1 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.1	< 5.1 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.1	< 5.1 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**13**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.1	< 5.1 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.1	< 5.1 U UJ
591-78-6	2-Hexanone	5.1	< 5.1 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U UJ
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	81.1%
d8-Toluene	97.9%
Bromofluorobenzene	93.7%
d4-1,2-Dichlorobenzene	90.7%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-602A-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 14:53

Sample Amount: 4.36 g-dry-wt
Percent Moisture: 16.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	Acetone	5.7	< 5.7 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U UJ
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	**cis-1,2-Dichloroethene**	**1.1**	**3.3**
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.7	< 5.7 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.7	< 5.7 U UJ
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**130**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.7	< 5.7 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.7	< 5.7 U UJ
591-78-6	2-Hexanone	5.7	< 5.7 U
127-18-4	**Tetrachloroethene**	**1.1**	**3.7**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U UJ
100-42-5	Styrene	1.1	< 1.1 U UJ
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.1%
d8-Toluene	96.1%
Bromofluorobenzene	87.5%
d4-1,2-Dichlorobenzene	92.8%

3/22/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-602A-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 15:19

Sample Amount: 3.54 g-dry-wt
Percent Moisture: 29.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	**Vinyl Chloride**	**1.4**	**3.6**
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.8	< 2.8 U
67-64-1	**Acetone**	**7.1**	**160**
75-15-0	**Carbon Disulfide**	**1.4**	**5.0** J
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	**trans-1,2-Dichloroethene**	**1.4**	**1.5**
156-59-2	**cis-1,2-Dichloroethene**	**1.4**	**21**
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**7.1**	**48**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	7.1	< 7.1 U UJ
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	**Trichloroethene**	**1.4**	**3.4**
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	**Benzene**	**1.4**	**12**
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	7.1	< 7.1 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.1	< 7.1 U UJ
591-78-6	2-Hexanone	7.1	< 7.1 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	**Toluene**	**1.4**	**8.5**
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U UJ
100-42-5	Styrene	1.4	< 1.4 U UJ
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.8	< 2.8 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	79.7%
d8-Toluene	98.5%
Bromofluorobenzene	84.4%
d4-1,2-Dichlorobenzene	90.8%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-1.5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16E
LIMS ID: 05-3975
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 15:46

Sample Amount: 5.01 g-dry-wt
Percent Moisture: 4.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**5.1**
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**2.0**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U UJ
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U UJ
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.3%
d8-Toluene	97.5%
Bromofluorobenzene	90.6%
d4-1,2-Dichlorobenzene	92.3%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 16:15

Sample Amount: 4.96 g-dry-wt
Percent Moisture: 4.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**6.1**
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**1.4**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U UJ
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U UJ
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.5%
d8-Toluene	96.2%
Bromofluorobenzene	94.9%
d4-1,2-Dichlorobenzene	90.0%

S 3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16G
LIMS ID: 05-3977
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/14/05 17:31

Sample Amount: 4.08 g-dry-wt
Percent Moisture: 20.8%

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	1.2	< 1.2 U	
74-83-9	Bromomethane	1.2	< 1.2 U	
75-01-4	Vinyl Chloride	1.2	< 1.2 U	
75-00-3	Chloroethane	1.2	< 1.2 U	
75-09-2	Methylene Chloride	2.5	< 2.5 U	
67-64-1	Acetone	6.1	< 6.1 U	
75-15-0	**Carbon Disulfide**	**1.2**	**2.3**	J
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U	
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U	
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U	
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U	
67-66-3	Chloroform	1.2	< 1.2 U	
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U	
78-93-3	2-Butanone	6.1	< 6.1 U	
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U	
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U	
108-05-4	Vinyl Acetate	6.1	< 6.1 U	UJ
75-27-4	Bromodichloromethane	1.2	< 1.2 U	
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U	
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U	
79-01-6	Trichloroethene	1.2	< 1.2 U	
124-48-1	Dibromochloromethane	1.2	< 1.2 U	
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U	
71-43-2	Benzene	1.2	< 1.2 U	
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U	
110-75-8	2-Chloroethylvinylether	6.1	< 6.1 U	
75-25-2	Bromoform	1.2	< 1.2 U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.1	< 6.1 U	UJ
591-78-6	2-Hexanone	6.1	< 6.1 U	
127-18-4	Tetrachloroethene	1.2	< 1.2 U	
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U	
108-88-3	Toluene	1.2	< 1.2 U	
108-90-7	Chlorobenzene	1.2	< 1.2 U	
100-41-4	Ethylbenzene	1.2	< 1.2 U	UJ
100-42-5	Styrene	1.2	< 1.2 U	UJ
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U	
1330-20-7	m,p-Xylene	1.2	< 1.2 U	
95-47-6	o-Xylene	1.2	< 1.2 U	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	84.3%
d8-Toluene	97.7%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	91.2%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-P2-601A-10EB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU16H
LIMS ID: 05-3978
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/05 14:41

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	UJ
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	Vinyl Chloride	0.2	< 0.2 U	
75-00-3	Chloroethane	0.2	< 0.2 U	
75-09-2	Methylene Chloride	0.3	< 0.3 U	
67-64-1	**Acetone**	**1.0**	**3.2**	
75-15-0	Carbon Disulfide	0.2	< 0.2 U	
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U	
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U	
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	Trichloroethene	0.2	< 0.2 U	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	Benzene	0.2	< 0.2 U	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U	R
75-25-2	Bromoform	0.2	< 0.2 U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U	
591-78-6	2-Hexanone	1.0	< 1.0 U	
127-18-4	Tetrachloroethene	0.2	< 0.2 U	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	
108-88-3	Toluene	0.2	< 0.2 U	
108-90-7	Chlorobenzene	0.2	< 0.2 U	
100-41-4	Ethylbenzene	0.2	< 0.2 U	
100-42-5	Styrene	0.2	< 0.2 U	
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	121%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	104%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: TRIP BLANK SAMPLE**

Lab Sample ID: HU16I
LIMS ID: 05-3979
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/24/05
Date Received: 03/01/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/05 15:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U UJ
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	119%
Bromofluorobenzene	97.8%
d4-1,2-Dichlorobenzene	105%

5/3/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 21:39
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.84 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.8%
pH: 7.4

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U UJ
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U UJ
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U UJ
78-59-1	Isophorone	64	< 64 U UJ
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U UJ
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U UJ
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

03/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Date Analyzed: 03/14/05 21:39

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U UJ
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U UJ
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U UJ

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	33.6%	2-Fluorobiphenyl	55.2%
d14-p-Terphenyl	62.4%	d4-1,2-Dichlorobenzene	44.4%
d5-Phenol	38.7%	2-Fluorophenol	34.7%
2,4,6-Tribromophenol	68.8%	d4-2-Chlorophenol	47.2%

3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 19:35
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 2.6%
pH: 6.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U UJ
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U UJ
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U UJ
78-59-1	Isophorone	64	< 64 U UJ
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U UJ
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U UJ
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Date Analyzed: 03/14/05 19:35

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U UJ
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U UJ
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U UJ

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	44.4%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	79.2%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	49.1%	2-Fluorophenol	40.8%
2,4,6-Tribromophenol	78.4%	d4-2-Chlorophenol	61.3%

5/18/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/14/05 20:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.58 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.5%
pH: 7.3

CAS Number	Analyte	RL	Result	
108-95-2	Phenol	66	< 66 U	
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U	UJ
95-57-8	2-Chlorophenol	66	< 66 U	
541-73-1	1,3-Dichlorobenzene	66	< 66 U	
106-46-7	1,4-Dichlorobenzene	66	< 66 U	
100-51-6	Benzyl Alcohol	330	< 330 U	UJ
95-50-1	1,2-Dichlorobenzene	66	< 66 U	
95-48-7	2-Methylphenol	66	< 66 U	
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U	UJ
106-44-5	4-Methylphenol	66	< 66 U	
621-64-7	N-Nitroso Di-N-Propylamine	330	< 330 U	
67-72-1	Hexachloroethane	66	< 66 U	
98-95-3	Nitrobenzene	66	< 66 U	UJ
78-59-1	Isophorone	66	< 66 U	UJ
88-75-5	2-Nitrophenol	330	< 330 U	
105-67-9	2,4-Dimethylphenol	66	< 66 U	
65-85-0	Benzoic Acid	660	< 660 U	
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U	UJ
120-83-2	2,4-Dichlorophenol	330	< 330 U	
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U	
91-20-3	Naphthalene	66	< 66 U	
106-47-8	4-Chloroaniline	330	< 330 U	
87-68-3	Hexachlorobutadiene	66	< 66 U	
59-50-7	4-Chloro-3-methylphenol	330	< 330 U	
91-57-6	2-Methylnaphthalene	66	< 66 U	
77-47-4	Hexachlorocyclopentadiene	330	< 330 U	UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U	
95-95-4	2,4,5-Trichlorophenol	330	< 330 U	
91-58-7	2-Chloronaphthalene	66	< 66 U	
88-74-4	2-Nitroaniline	330	< 330 U	UJ
131-11-3	Dimethylphthalate	66	< 66 U	
208-96-8	Acenaphthylene	66	< 66 U	
99-09-2	3-Nitroaniline	330	< 330 U	
83-32-9	Acenaphthene	66	< 66 U	
51-28-5	2,4-Dinitrophenol	660	< 660 U	
100-02-7	4-Nitrophenol	330	< 330 U	
132-64-9	Dibenzofuran	66	< 66 U	
606-20-2	2,6-Dinitrotoluene	330	< 330 U	

3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Date Analyzed: 03/14/05 20:06

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U UJ
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U UJ
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U UJ

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	36.8%	2-Fluorobiphenyl	60.4%
d14-p-Terphenyl	68.8%	d4-1,2-Dichlorobenzene	49.6%
d5-Phenol	42.7%	2-Fluorophenol	37.6%
2,4,6-Tribromophenol	72.0%	d4-2-Chlorophenol	53.3%

5/3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/07/05
Date Analyzed: 03/11/05 17:09
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Date Analyzed: 03/11/05 17:09

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.6%	2-Fluorobiphenyl	74.0%
d14-p-Terphenyl	83.2%	d4-1,2-Dichlorobenzene	66.4%
d5-Phenol	75.5%	2-Fluorophenol	71.2%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	78.4%

5 3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 22:33
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.84 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 17.8 %
pH: 7.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	**Benzo(a)pyrene**	**6.4**	**39**
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	47.3%
d14-Dibenzo(a,h)anthracene	45.7%

53/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 20:50
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 2.6 %
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracene	86.3%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/11/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/09/05 21:16
Instrument/Analyst: NT1/YZ
GPC Cleanup: No

Sample Amount: 7.58 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.5 %
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**8.6**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	**Benzo(a)pyrene**	**6.6**	**22**
193-39 5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	54.3%
d14-Dibenzo(a,h)anthracene	63.3%

53/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/10/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/07/05
Date Analyzed: 03/09/05 19:07
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracene	93.0%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-602A-10EB
SAMPLE

Lab Sample ID: HU16D
LIMS ID: 05-3974
Matrix: Water
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/04/05
Date Analyzed: 03/08/05 19:31
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	31.0%
Tetrachlorometaxylene	83.5%

3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-601A-1.5
SAMPLE

Lab Sample ID: HU16E
LIMS ID: 05-3975
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 17:01
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 2.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	100%

S 3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-601A-5
SAMPLE

Lab Sample ID: HU16F
LIMS ID: 05-3976
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 17:18
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.5 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.7
Percent Moisture: 4.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	96.0%

3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-601A-10
SAMPLE

Lab Sample ID: HU16G
LIMS ID: 05-3977
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 17:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 20.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	95.8%

S 3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-602A-10
SAMPLE

Lab Sample ID: HU16C
LIMS ID: 05-3973
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 16:44
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.4
Percent Moisture: 17.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	91.2%

CJ 3/28/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-602A-1.5
SAMPLE

Lab Sample ID: HU16A
LIMS ID: 05-3971
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 15:36
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.3
Percent Moisture: 2.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	92.2%

3/28/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-P2-602A-5
SAMPLE

Lab Sample ID: HU16B
LIMS ID: 05-3972
Matrix: Soil
Data Release Authorized:
Reported: 03/14/05

QC Report No: HU16-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/01/05

Date Extracted: 03/08/05
Date Analyzed: 03/11/05 15:53
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 5.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.0%
Tetrachlorometaxylene	85.0%

8/3/28/05

FORM I

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INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: Fremont P2DG South Yard
LABORATORY: ARI	SDG: P2DG Fremont H4176
SAMPLES/MATRIX/ANALYSES: water	
SY-DP-05-15-F	SY-DP-02-15-F
SY-DP-04-15-F	SY-DP-06-15-F
SY-DP-03-15-F	SY-DP-08-15-F
SY-DP-03-15-F-1	SY-DP-07-15-F

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	HG (Brooks)	CYANIDE	OTHER (CVAA)
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS	O		O		O SPM
7. Duplicate RPD	O		—		—
8. Spike Recovery	O		O		O
9. MSA	—		—		—
10. Other QC	O		—		—
11. Field Duplicates	O		O		O
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: FD pair SY-DP-03-15-F / F-1 Compare

16136 - polyethylene bottles must not be used for Hg and HNO3 (should not be used - HCL or BrCl. All results UJ

Validated by: [signature] Date: 4.8.05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
__ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:_____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 80%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

4. Blanks (check all that apply) . . . . . ✓ ___

___Detects reported in ICB/CCB, list: Mn, Al.

___Detects in preparation blanks, list: ___

___Detects in field blanks, list: ___

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results: As 1.7 µg/m CCB7 'U' (5X=8.5) { S4-OP-06-15-F, S4-OP-08-15-F, S4-OP-07-15-F

5. Interference Checks (check all that apply) . . . . . ✓ ___

✓ICS A/B Recoveries Acceptable
___Al, Ca, Fe, Mg sample concentrations >ICS concentrations
___ICS %R >120%, results >IDL estimated (J)
___ICS %R 50-79%, results >IDL estimated (J)
___ICS %R 50-79%, results <IDL estimated (UJ)
___ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results: ___

6. Laboratory Control Samples (check all that apply) . . . . . ✓ ___

✓LCS %R 80-120
___LCS %R 50-79% or >120%, results >IDL estimated (J)
___LCS %R 50-79% and results <IDL estimated (UJ)
___LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results: ___

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Duplicate (check all that apply)	✓	

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
__ Spike %R 30-74%, >125%, results >IDL estimated (J)
__ Spike %R 30-74% results <IDL estimated (UJ)
__ Spike %R <30%, results <IDL rejected (UR)
__ Field blank used for spike analysis

Comments/Qualified Results: LCS MW ok

CVAA MS ok 115%, 102% ok.

	Acceptable Yes	Acceptable No
9. GFAA Performance		

__ Duplicate injection RSD <20%
__ Duplicate injection RSD >20%, results >CRDL estimated (J)
__ Analytical spike %R 85-115%
__ Analytical spike %R 40-85%, results >IDL estimated (J)
__ Analytical spike %R 10-40%, results <IDL estimated (UJ)
__ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial Dilution run; ok.

11. Field Duplicates	✓	

✓ Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: FD pair S4-DP-03-15-F/03-15-F-1 compare.

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results:

recalc V HUTHI 8 µg/L .00795 x 1000 x 50/50 = 8

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0364

ARI Client: The Boeing Company
ARI Project ID: HU76

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-DP-05-15-F	05BR0364 - 1	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-04-15-F	05BR0364 - 2	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-03-15-F	05BR0364 - 3	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-03-15-F-1	05BR0364 - 4	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-02-15-F	05BR0364 - 5	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-06-15-F	05BR0364 - 6	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-08-15-F	05BR0364 - 7	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U
SY-DP-07-15-F	05BR0364 - 8	3/11/05	3/14/05	05-0132	25.000	ng/L	H,U

UJ

S 4.8.05

Monday, March 21, 2005

Elizabeth Madonick
Project Manager

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ap
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-05-15
ARI ID: 05-4452 HU76A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

54.805
000088

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ARP
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-04-15
ARI ID: 05-4453 HU76B

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

4.8.05

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-03-15
ARI ID: 05-4454 HU76C

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

54805

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ant
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-03-15-1
ARI ID: 05-4455 HU76D

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

S48 05

SAMPLE RESULTS-CONVENTIONALS
HU76-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/10/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: SY-DP-02-15
ARI ID: 05-4456 HU76E

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

5/18/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-05-15-F
SAMPLE

Lab Sample ID: HU76I
LIMS ID: 05-4460
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**75.4**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**1.7**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**8**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**23**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-04-15-F
SAMPLE

Lab Sample ID: HU76J
LIMS ID: 05-4461
Matrix: Water
Data Release Authorized: BC
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**86.6**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**2.2**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**6**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**24**	

U-Analyte undetected at given RL
RL-Reporting Limit

3/48.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-DP-03-15-F
SAMPLE

Lab Sample ID: HU76K
LIMS ID: 05-4462
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**82.8**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/10/05	6010B	03/14/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

3.8.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-03-15-F-1
SAMPLE

Lab Sample ID: HU76L
LIMS ID: 05-4463
Matrix: Water
Data Release Authorized
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**82.1**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/10/05	6010B	03/14/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

G4.805

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-DP-02-15-F
SAMPLE

Lab Sample ID: HU76M
LIMS ID: 05-4464
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/15/05	**7440-38-2**	**Arsenic**	0.2	**67.0**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/15/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/15/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/15/05	**7440-02-0**	**Nickel**	0.5	**2.1**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/15/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**7**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**20**	

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.8.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-06-15-F
SAMPLE

Lab Sample ID: HU76N
LIMS ID: 05-4465
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/16/05	**7440-38-2**	**Arsenic**	0.2	**7.6**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/16/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/16/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/16/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	7440-62-2	Vanadium	3	3	U
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**8**	

U-Analyte undetected at given RL
RL-Reporting Limit

5-4-8.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-08-15-F
SAMPLE

Lab Sample ID: HU760
LIMS ID: 05-4466
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/16/05	**7440-38-2**	**Arsenic**	0.2	**3.4**	
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/16/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/16/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/16/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**7**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**7**	

U-Analyte undetected at given RL
RL-Reporting Limit

9-4-8.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-DP-07-15-F
SAMPLE

Lab Sample ID: HU76P
LIMS ID: 05-4467
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/10/05	6010B	03/14/05	7440-36-0	Antimony	50	50	U
200.8	03/10/05	200.8	03/16/05	**7440-38-2**	**Arsenic**	0.2	**8.2**	U ✓
6010B	03/10/05	6010B	03/14/05	7440-41-7	Beryllium	1	1	U
6010B	03/10/05	6010B	03/14/05	7440-43-9	Cadmium	2	2	U
6010B	03/10/05	6010B	03/14/05	7440-47-3	Chromium	5	5	U
200.8	03/10/05	200.8	03/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/10/05	200.8	03/16/05	7439-92-1	Lead	1	1	U
200.8	03/10/05	200.8	03/16/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
6010B	03/10/05	6010B	03/14/05	7782-49-2	Selenium	50	50	U
200.8	03/10/05	200.8	03/16/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/10/05	6010B	03/14/05	7440-28-0	Thallium	50	50	U
6010B	03/10/05	6010B	03/14/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/10/05	6010B	03/14/05	**7440-66-6**	**Zinc**	6	**8**	

U-Analyte undetected at given RL
RL-Reporting Limit

5/4/05

FORM-I

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: Boeing P2DG South Yard
LABORATORY: ARI	SDG: H4716
SAMPLES/MATRIX/ANALYSES: Water	
SY-DP-05-15	SY-DP-02-15
-04-15	06-15
-03-15-1	-08-15
-03-15	-07-15

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA (SIM 8270)	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O		O					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD LCS/LCSD	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: FD pairs
SY-DP-03-15-F / F-1
SY-DP-03-15 / 03-15-1 VC out, 1,1DCA, 1,2DCE, CZ DCE out

Validated by: [signature] Date: 4.7.05

Reviewed by: [signature] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
__ Initial Calibration Data
✓ Continuing Calibration Data

✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
__ Sample Preparation Data
__ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply)	✓	

__ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
__ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: _____

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
__ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) (if no, R detects)
✓ Standard Checks within Retention Time Window (if no, check against expanded windows and if outside, qualify R/UR)
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓ DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

	Acceptable Yes	No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓ RSD ≤10% for performance checks (if no, J detects)
✓ All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓ Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

Comments/Qualified Results:
VOA ICAL 3/15/05 <.05 acetone ~~-5-15, 4-15~~ (R) (R) -3-15, 6-15, 8-15, 7-15
CCAL 3/14/05 >25 CMeth, 2Clve, -5-15, 4-15 (UJ)
CCAL 3/15/05 <.05 acetone -3-15-1 (R)
CCAL 3/16/05 <.05 acetone (R) -2-15

	Acceptable Yes	No
6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet)
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet)
Qualify sample results <5x above as U at SQL

Comments/Qualified Results:

SVOA ICAL 3/2/05 >30 4-6 Min-2-mep - all smpls UJ 54-DP-05-15, -04-15, -03-15
03-15-1, 02-15, 06-15, -08-15, 07-15

CCAL 3/16/05 >25% benzalcs, hexachl, 4nitrop - all smpls above J/UJ

SIM CCAL 3/16/05 >25 dibenz(a,h)anth UJ 54-DP-05-15, 4-15, 3-15
3-15-1, 2-15, 6-15, 8-15, 7-15

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates.	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate . . . . . LCS/LCSD for this SDG	✓	

__ MS/MSD analyzed
__ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: VOA LCS/LCSD ok. no spikes for this set
SVOA LCS/LCSD
SIM
PCB

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC V, B
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results: _____

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
___Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification . . . . . ✓ ___

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits . . . . . ✓ ___

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results: Recale:

√ ~~[illegible]~~ VC 31 µg/L

87424 x 50 = 32 ok.
~~244952 x .5047~~

SVOA - All ND - no recalcs
Sim - All ND - no recalcs
PCB - All ND - no recalcs

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 00:25
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.5%
Tetrachlorometaxylene	77.2%

94705

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 00:42
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.8%
Tetrachlorometaxylene	76.8%

54.7.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 00:59
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	71.2%
Tetrachlorometaxylene	78.2%

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 01:16
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.2%
Tetrachlorometaxylene	81.2%

S4.705

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 01:33
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	80.8%

S 4705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 01:50
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	74.0%

54.7 05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:07
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	60.8%
Tetrachlorometaxylene	48.5%

SY 7.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized:
Reported: 03/16/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:24
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	49.8%
Tetrachlorometaxylene	69.2%

54.705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:00
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U 45
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	74.3%
d14-Dibenzo(a,h)anthracene	88.0%

54.705

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:25
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U UJ
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	87.7%
d14-Dibenzo(a,h)anthracene	94.3%

5 4.705
000056

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:50
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U WJ ✓
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	82.0%
d14-Dibenzo(a,h)anthracene	97.0%

54705
000057

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:15
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U UJ
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	88.3%
d14-Dibenzo(a,h)anthracene	99.7%

5.4.7.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS
Page 1 of 1

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:40
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U UJ
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	84.3%
d14-Dibenzo(a,h)anthracene	93.7%

94.705
000059

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:06
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U 45
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	86.3%
d14-Dibenzo(a,h)anthracene	101%

54.705

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:31
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U 45
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	78.7%
d14-Dibenzo(a,h)anthracene	59.0%

54705
000061

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by Selected Ion Monitoring GC/MS

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:56
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U UJ
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	75.3%
d14-Dibenzo(a,h)anthracene	106%

3-17-05
000062

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/14/05 20:48

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U UJ
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**31**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	**trans-1,2-Dichloroethene**	**1.0**	**1.7**
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**8.3**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U UJ
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	97.3%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	91.8%

94705

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-04-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/14/05 21:14

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	1.0	< 1.0 U	UJ
74-83-9	Bromomethane	1.0	< 1.0 U	
75-01-4	**Vinyl Chloride**	**1.0**	**28**	
75-00-3	Chloroethane	1.0	< 1.0 U	
75-09-2	Methylene Chloride	2.0	< 2.0 U	
67-64-1	Acetone	5.0	< 5.0 U	
75-15-0	Carbon Disulfide	1.0	< 1.0 U	
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U	
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U	
156-60-5	**trans-1,2-Dichloroethene**	**1.0**	**1.4**	
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**3.8**	
67-66-3	Chloroform	1.0	< 1.0 U	
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U	
78-93-3	2-Butanone	5.0	< 5.0 U	
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U	
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U	
108-05-4	Vinyl Acetate	5.0	< 5.0 U	
75-27-4	Bromodichloromethane	1.0	< 1.0 U	
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U	
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U	
79-01-6	Trichloroethene	1.0	< 1.0 U	
124-48-1	Dibromochloromethane	1.0	< 1.0 U	
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U	
71-43-2	Benzene	1.0	< 1.0 U	
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U	
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U	UJ
75-25-2	Bromoform	1.0	< 1.0 U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U	
591-78-6	2-Hexanone	5.0	< 5.0 U	
127-18-4	Tetrachloroethene	1.0	< 1.0 U	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
108-90-7	Chlorobenzene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
100-42-5	Styrene	1.0	< 1.0 U	
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U	
1330-20-7	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	97.5%
Bromofluorobenzene	95.3%
d4-1,2-Dichlorobenzene	93.2%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-03-15-1**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/15/05 13:29

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**20**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 ~~U~~ R
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	**1,1-Dichloroethane**	**1.0**	**1.4**
156-60-5	**trans-1,2-Dichloroethene**	**1.0**	**1.2**
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**2.0**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.1%
d8-Toluene	92.7%
Bromofluorobenzene	96.6%
d4-1,2-Dichlorobenzene	90.7%

54-705
000026

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 17:14

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**7.1**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R ✓
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**0.5**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.7**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.5%
d8-Toluene	93.8%
Bromofluorobenzene	87.5%
d4-1,2-Dichlorobenzene	92.0%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-02-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/16/05 15:13

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**10**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**8.6**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.0**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.8**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	109%
d8-Toluene	108%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	105%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-06-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 18:08

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.3**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	88.5%
d8-Toluene	106%
Bromofluorobenzene	93.5%
d4-1,2-Dichlorobenzene	99.8%

54.705
000014

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 18:36

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.4**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	104%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	105%

54705
000015

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-07-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/15/05 19:03

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 UR
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.8%
d8-Toluene	104%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	99.8%

54705
000016

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:19
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5 0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

3.9.05
000035

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-05-15
SAMPLE

Lab Sample ID: HU76A
LIMS ID: 05-4452
Matrix: Water
Date Analyzed: 03/16/05 13:19

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ✓
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.4%	2-Fluorobiphenyl	80.0%
d14-p-Terphenyl	90.0%	d4-1,2-Dichlorobenzene	73.2%
d5-Phenol	77.9%	2-Fluorophenol	76.0%
2,4,6-Tribromophenol	93.6%	d4-2-Chlorophenol	82.7%

54705

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 13:52
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

94705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-04-15
SAMPLE

Lab Sample ID: HU76B
LIMS ID: 05-4453
Matrix: Water
Date Analyzed: 03/16/05 13:52

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.2%	2-Fluorobiphenyl	73.2%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	70.4%	2-Fluorophenol	69.3%
2,4,6-Tribromophenol	84.8%	d4-2-Chlorophenol	76.3%

5.4.7 05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:25
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

54.705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15
SAMPLE

Lab Sample ID: HU76C
LIMS ID: 05-4454
Matrix: Water
Date Analyzed: 03/16/05 14:25

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in $\mu g/L$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	76.0%
d14-p-Terphenyl	89.2%	d4-1,2-Dichlorobenzene	67.6%
d5-Phenol	74.9%	2-Fluorophenol	71.5%
2,4,6-Tribromophenol	87.5%	d4-2-Chlorophenol	79.5%

54705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 14:58
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

9.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-03-15-1
SAMPLE

Lab Sample ID: HU76D
LIMS ID: 05-4455
Matrix: Water
Date Analyzed: 03/16/05 14:58

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.4%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	84.8%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	70.4%	2-Fluorophenol	68.3%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	73.9%

34.705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 15:31
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4.7.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-02-15
SAMPLE

Lab Sample ID: HU76E
LIMS ID: 05-4456
Matrix: Water
Date Analyzed: 03/16/05 15:31

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	83.2%	2-Fluorobiphenyl	82.0%
d14-p-Terphenyl	88.8%	d4-1,2-Dichlorobenzene	73.2%
d5-Phenol	78.7%	2-Fluorophenol	75.5%
2,4,6-Tribromophenol	94.4%	d4-2-Chlorophenol	82.1%

4.7.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:04
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4.7.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-06-15
SAMPLE

Lab Sample ID: HU76F
LIMS ID: 05-4457
Matrix: Water
Date Analyzed: 03/16/05 16:04

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.4%	2-Fluorobiphenyl	74.4%
d14-p-Terphenyl	87.6%	d4-1,2-Dichlorobenzene	67.2%
d5-Phenol	73.6%	2-Fluorophenol	70.7%
2,4,6-Tribromophenol	85.9%	d4-2-Chlorophenol	75.7%

SY-7 05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Data Release Authorized: TMW
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:37
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-08-15
SAMPLE

Lab Sample ID: HU76G
LIMS ID: 05-4458
Matrix: Water
Date Analyzed: 03/16/05 16:37

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	84.0%	2-Fluorobiphenyl	81.6%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	74.0%
d5-Phenol	78.4%	2-Fluorophenol	75.2%
2,4,6-Tribromophenol	93.3%	d4-2-Chlorophenol	82.1%

SJ 4.7.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 17:10
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-07-15
SAMPLE

Lab Sample ID: HU76H
LIMS ID: 05-4459
Matrix: Water
Date Analyzed: 03/16/05 17:10

QC Report No: HU76-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	86.4%	2-Fluorobiphenyl	84.4%
d14-p-Terphenyl	98.8%	d4-1,2-Dichlorobenzene	75.2%
d5-Phenol	84.8%	2-Fluorophenol	80.5%
2,4,6-Tribromophenol	101%	d4-2-Chlorophenol	86.4%

54.705
000050

INORGANIC DATA VALIDATION SUMMARY

PROJECT: 03-1646-002.200	SITE: Boeing P206 Scrap Yard
LABORATORY: ARI	SDG: 4477
SAMPLES/MATRIX/ANALYSES: Soil total metals, Cr+6	

DP-S4-2-1	DP-S4-4-10	DP-S4-7-5
2-5	5-1	7-10
2-10	5-5	8-1
3-1	5-10	8-5
3-5	6-1	8-10
3-10	6-5	
4-1	6-10	DP-S4-4-10EB - Cr+6 only
4-5	7-1	

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	HG (7471)	CYANIDE	OTHER (Cr+6)
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		
4. Blanks	O		O		O
5. ICS	O		—		
6. LCS	O		—		Same O
7. Duplicate RPD	O		O		O
8. Spike Recovery	O		O		O
9. MSA	—		—		—
10. Other QC	O		—		—
11. Field Duplicates	—		—		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

Validated by: Christal Jenn Date: 4.6.05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

	Acceptable Yes	Acceptable No
2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:_____

	Acceptable Yes	Acceptable No
3. Calibrations (check all that apply)	✓	

__ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
✓ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Blanks (check all that apply)	✓	

9-4-605

___Detects reported in ICB/CCB, list:_____

___Detects in preparation blanks, list:_____

___Detects in field blanks, list:_____

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results:_____

	Acceptable Yes	Acceptable No
5. Interference Checks (check all that apply)	✓	

✓ICS A/B Recoveries Acceptable
___Al, Ca, Fe, Mg sample concentrations >ICS concentrations
___ICS %R >120%, results >IDL estimated (J)
___ICS %R 50-79%, results >IDL estimated (J)
___ICS %R 50-79%, results <IDL estimated (UJ)
___ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:_____

	Acceptable Yes	Acceptable No
6. Laboratory Control Samples (check all that apply)	✓	

✓LCS %R 80-120
___LCS %R 50-79% or >120%, results >IDL estimated (J)
___LCS %R 50-79% and results <IDL estimated (UJ)
___LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:_____

	Acceptable Yes	Acceptable No
7. Duplicate (check all that apply)	✓	

__Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
✓ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
✓ Spike %R 30-74%, >125%, results >IDL estimated (J)
✓ Spike %R 30-74% results <IDL estimated (UJ)
__Spike %R <30%, results <IDL rejected (UR)
__Field blank used for spike analysis

Comments/Qualified Results: Al, Mg spl >4x spike - no action
DP-SM-2-1 { Sb (29%) all Sb J, UJ, Cr J for DP-SM-2-1, all soils
{ Cr (147%)
DP-SM-8-10 - (Sb (26%))

	Acceptable Yes	Acceptable No
9. GFAA Performance		

__Duplicate injection RSD <20%
__Duplicate injection RSD >20%, results >CRDL estimated (J)
__Analytical spike %R 85-115%
__Analytical spike %R 40-85%, results >IDL estimated (J)
__Anlaytical spike %R 10-40%, results <IDL estimated (UJ)
__Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial D. run, in control

11. Field Duplicates

___Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: Not in SDG

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: recalc HU77A Cr 27.4

.2783 x 50 x2 = 27.41
1.081g x .939

no CrHe recalc - all ND.

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: art
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-2-1
ARI ID: 05-4468 HU77A

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.114	< 0.114 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	92.90

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

4/6/06

4.6.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: aml
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-2-5
ARI ID: 05-4469 HU77B

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.110	< 0.110 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	92.70

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

MMA 4/6/06

4.6.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: ah
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-2-10
ARI ID: 05-4470 HU77C

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.122	< 0.122 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	77.20

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

4/6/06

94.605

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: [illegible]
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-3-1
ARI ID: 05-4471 HU77D

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.104	< 0.104 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	95.10

MAS 4/6/06

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

5.4.6.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: ark
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-3-5
ARI ID: 05-4472 HU77E

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.118	< 0.118 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	84.70

UJ 4/6/05

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

4.6.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: AP
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-3-10
ARI ID: 05-4473 HU77F

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.128	< 0.128 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	76.20

4/6/06

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

4.6.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: aH
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-1
ARI ID: 05-4474 HU77G

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.106	< 0.106 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	97.00

mmh 4/6/06

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

G4.6.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: a+p
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-5
ARI ID: 05-4475 HU77H

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.105	< 0.105 U uJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	95.50

MWS 4/6/06

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

54.605

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-10
ARI ID: 05-4476 HU77I

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.131	< 0.131 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	73.40

4/6/06

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

4-6-05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: aul
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-4-10EB
ARI ID: 05-4477 HU77J

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/07/05 030705#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

4/6/06

4.6.05

000211

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: QAP
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-5-1
ARI ID: 05-4478 HU77K

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.117	< 0.117 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	93.10

mat 9/6/06

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

9.4.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: aq
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-5-5
ARI ID: 05-4479 HU77L

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.117	< 0.117 U UJ
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	93.70

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

4/6/06

9.6.05

SAMPLE RESULTS-CONVENTIONALS
HU77-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Client ID: DP-SY-5-10
ARI ID: 05-4480 HU77M

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.106	< 0.106 U
Total Solids	03/08/05 030805#1	EPA 160.3	Percent	0.01	77.40

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

4.6.05

000214

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 93.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	13,700	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	UUJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	0.1	
3050B	03/16/05	6010B	03/18/05	**7440-43-9**	**Cadmium**	0.2	0.4	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	27.4	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	32.9	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	6	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	4,670	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.04	0.04	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	20	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	45.6	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	50.4	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 86.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**10,000**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**52.1**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**13.5**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**4**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,200**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**36.5**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**23.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 71.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	7	22,500	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	7	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	0.3	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.7	21.8	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.3	31.5	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	3	10	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	7	5,460	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.06	0.07	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	17	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	58.8	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.8	64.3	

U-Analyte undetected at given RL
RL-Reporting Limit

9.4.6.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 93.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**8,830**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**15.1**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**12.8**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**4**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**3,080**	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.04	**0.05**	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**11**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**37.3**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**32.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	6	8,860	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.6	9.0	J
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	10.8	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	6	1,930	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	6	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	36.5	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.7	17.0	

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	5	12,600	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.2	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.5	18.0	J
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	20.6	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	6	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	5	3,630	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.06	
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	13	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	54.1	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.6	35.3	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 94.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q	
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	5	9,430		
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U	UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U	
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1		
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.4		
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.5	18.3		J
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	17.7		
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	9		
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	5	2,650		
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.09		
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	13		
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U	
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U	
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	41.3		
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.6	48.7		

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 95.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**9,520**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**14.0**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**12.9**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,580**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**13**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**39.8**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**27.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

SU.605

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 78.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**10,400**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**12.1**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**13.6**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**2**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,370**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**44.6**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**23.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

S4.605
000182

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P20G-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 97.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q	
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**7,750**		
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U	UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U	
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**		
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**11.7**		J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**9.1**		
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,550**		
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**9**		
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U	
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U	
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**39.4**		
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**23.5**		

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.6.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 73.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	7	**10,200**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U UJ✓
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.7	**11.4**	J✓
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.3	**13.2**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	3	**3**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	7	**2,150**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**10**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**41.8**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.8	**22.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 77.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**11,800**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**13.2**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.3	**15.5**	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	3	3	U
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,560**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**48.0**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.8	**24.1**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	5	10,300	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	7	
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	4.3	
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.5	15.3	J
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.2	25.1	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	16	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	5	2,950	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	12	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	7.1	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.3	41.4	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.6	83.3	

U-Analyte undetected at given RL
RL-Reporting Limit

9U.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU77O
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized: BK
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 82.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q	
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**10,700**		
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U	UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U	
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**19.5**		J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**12.8**		
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**3**		
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,420**		
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**7**		
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U	
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U	
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**38.2**		
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**22.5**		

U-Analyte undetected at given RL
RL-Reporting Limit

9.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 77.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**16,500**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.2**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**16.1**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**24.2**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**4**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**3,640**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**12**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**50.0**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**27.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 92.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**9,070**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**10.5**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**11.3**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**2**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,070**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**7**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**36.1**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**19.9**	

U-Analyte undetected at given RL
RL-Reporting Limit

5.U.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 92.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	5	**8,730**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.5	**9.9**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**9.2**	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	5	**2,200**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	5	5	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	5	5	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**36.8**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.6	**22.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.6.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 78.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	**11,600**	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**13.5**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**16.5**	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	2	2	U
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,450**	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**46.3**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**22.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 88.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	6	10,800	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/16/05	6010B	03/18/05	**7440-43-9**	**Cadmium**	0.2	**0.8**	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.6	**15.0**	J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.2	**25.3**	
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	2	**9**	
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	6	**2,980**	
CLP	03/16/05	7471A	03/17/05	**7439-97-6**	**Mercury**	0.05	**0.08**	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**12**	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-22-4**	**Silver**	0.3	**2.1**	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	6	6	U
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.3	**42.5**	
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.7	**50.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

jl 6.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 68.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/16/05	6010B	03/18/05	7429-90-5	Aluminum	7	17,200	
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	8	
3050B	03/16/05	6010B	03/18/05	7440-41-7	Beryllium	0.1	0.3	
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/16/05	6010B	03/18/05	7440-47-3	Chromium	0.7	19.5	J
3050B	03/16/05	6010B	03/18/05	7440-50-8	Copper	0.3	32.0	
3050B	03/16/05	6010B	03/18/05	7439-92-1	Lead	3	11	
3050B	03/16/05	6010B	03/18/05	7439-95-4	Magnesium	7	4,750	
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.06	0.10	
3050B	03/16/05	6010B	03/18/05	7440-02-0	Nickel	1	15	
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U
3050B	03/16/05	6010B	03/18/05	7440-62-2	Vanadium	0.4	58.7	
3050B	03/16/05	6010B	03/18/05	7440-66-6	Zinc	0.9	47.0	

U-Analyte undetected at given RL
RL-Reporting Limit

4.6.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Percent Total Solids: 73.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q	
3050B	03/16/05	6010B	03/18/05	**7429-90-5**	**Aluminum**	7	**16,500**		
3050B	03/16/05	6010B	03/18/05	7440-36-0	Antimony	7	7	U	UJ
3050B	03/16/05	6010B	03/18/05	7440-38-2	Arsenic	7	7	U	
3050B	03/16/05	6010B	03/18/05	**7440-41-7**	**Beryllium**	0.1	**0.2**		
3050B	03/16/05	6010B	03/18/05	7440-43-9	Cadmium	0.3	0.3	U	
3050B	03/16/05	6010B	03/18/05	**7440-47-3**	**Chromium**	0.7	**15.8**		J
3050B	03/16/05	6010B	03/18/05	**7440-50-8**	**Copper**	0.3	**25.4**		
3050B	03/16/05	6010B	03/18/05	**7439-92-1**	**Lead**	3	**4**		
3050B	03/16/05	6010B	03/18/05	**7439-95-4**	**Magnesium**	7	**3,580**		
CLP	03/16/05	7471A	03/17/05	7439-97-6	Mercury	0.07	0.07	U	
3050B	03/16/05	6010B	03/18/05	**7440-02-0**	**Nickel**	1	**12**		
3050B	03/16/05	6010B	03/18/05	7782-49-2	Selenium	7	7	U	
3050B	03/16/05	6010B	03/18/05	7440-22-4	Silver	0.4	0.4	U	
3050B	03/16/05	6010B	03/18/05	7440-28-0	Thallium	7	7	U	
3050B	03/16/05	6010B	03/18/05	**7440-62-2**	**Vanadium**	0.4	**49.1**		
3050B	03/16/05	6010B	03/18/05	**7440-66-6**	**Zinc**	0.8	**26.7**		

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.6.05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: Boeing P2D0 Southgate
LABORATORY: ABC	SDG: 4477
SAMPLES/MATRIX/ANALYSES: Soils + TB 2/22/05	

DP-54-7-1	DP-54-2-1 2-5	DP-54-4-10 5-1
7-5	2-10 3-1	5-5 5-10
7-10 8-1	3-5 3-10	6-1
8-5, RE 8-10	4-1 4-5	6-5 6-10

DATA ASSESSMENT SUMMARY

Review Item	VOA	SVM + BNA SOIL	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: TB not listed on COC

Validated by: Austin Jun Date: 4.5.05

Reviewed by: [illegible] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

Acceptable Yes / No

1. Data Completeness (check if present) . . . . . ✓ ___

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
✓ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply) . . . . . ✓ ___

___ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: _____

3. GC/MS Tuning . . . . . ✓ ___

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
___ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) (if no, R detects)
__Standard Checks within Retention Time Window (if no, check against expanded windows and if outside, qualify R/UR)
__DDT and/or Endrin Breakdowns > 20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓ DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
__RSD ≤10% for performance checks (if no, J detects)
__All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
__Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

Comments/Qualified Results: VOA CCAL 3/14/05 Carb dis, Vacet, 4Me2P Styrene J/UJ for DP-SY-5-1, -2-1, -2-5, -2-10, -3-1, -3-5, -3-10, -4-1, 4-5, 4-10
SVOA CCAL 3/18/05 725 hexachl, 4-nitrop. 3-5, 3-10, 4-1, 2-5, 2-10, 3-1, 4-5, 4-10, 5-1, 5-10, 6-5, 6-10, 7-1
3/21/05 725 benz alc, hexachl 5-5, 7-5, 7-10, 9-5, 2-1, 6-1
3/22/05 725 benz alc, benz acid, hexachl, 24DNP, 4 nitrop 8-1, 8-10
3/23/05 725 hexachl, 2,4,DNP 7.5 RF.

	Acceptable Yes	Acceptable No
6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet)
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet)
Qualify sample results <5x above as U at SQL

Comments/Qualified Results:
VOA TB acetone 7.6 µg/L 'U' DP-SY-7-1, -7-5, 7-10, 3-10, 4-10, 6-1

SVOA SIM %D>25 CCAL 3/14/05 dibenz(a,h) anth J/UJ 2-5, 2-10, 3-1, 3-5, 4-1, 4-5, 4-10, 5-1

PCB CCAL >15% ok.

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates.	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed V, SV
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

SVOA - one surr out - allowed per method - no qual.

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate	✓	

✓ MS/MSD analyzed V
__ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
✓ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results:

VOA: vinyl acetate, trichlorofluorometh out (50-150) DP-S4-6-10 VQ low (35, 29%) UJ Trich (4) - no action

SVOA LCS/LCSD RPD out for 24DNT - % R's in; no action

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC V
__ Internal standard areas within control limits
✓ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

VOA IS4 Area low for DP-S4-8-5 - assoc. Cmpds J, UJ and RE
SVOA IS6 out (low) for DP-S4-7-5A and assoc Cmpds J/UJ
SVM IS5 & 5-10, 7-5, 7-10 no action, analyte requantied using different IS.

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected (CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freone, phthalates <100 ug/L or <4000 ug/Kg, cyclohexane derivatives, aldols or hydroxy ketones and hydroxy aldehydes))
___Qualify valid TICs as JN

Comments/Qualified Results: na

12. Result Verification . . . . . ✓ ___

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits . . . . . ✓ ___

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results: HU77A

VOA recalc 4172 x 50 / TCE 298519 x .41172 .84 = 1.995 2 reported µg/kg

SVOA recalc. anthracene 72 µg/kg reported
24723 x 20 x 500 x .948 / 2.64 515 x 1.18901 = 74 rounding diff.

PCB HU254 230 µg/kg 3.79 g dry 4 ml .948
.191 .221 .221 x 1000 ÷ 221 / .948 = 233
230 reported.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 13:21
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 3.79 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 5.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	110	< 110 U
53469-21-9	Aroclor 1242	110	< 110 U
12672-29-6	Aroclor 1248	110	< 110 U
11097-69-1	**Aroclor 1254**	**110**	**230**
11096-82-5	**Aroclor 1260**	**110**	**140**
11104-28-2	Aroclor 1221	110	< 110 U
11141-16-5	Aroclor 1232	110	< 110 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	140%
Tetrachlorometaxylene	91.8%

94.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 13:55
Instrument/Analyst: ECDS/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 17.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	95.8%

G 4-5-05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:12
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 27.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	125%
Tetrachlorometaxylene	94.0%

94.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:29
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 5.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	**Aroclor 1254**	**33**	**90**
11096-82-5	**Aroclor 1260**	**33**	**73**
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	93.5%

54.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:46
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 11.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	115%
Tetrachlorometaxylene	100%

94.505
000149

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 15:03
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 15.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	**Aroclor 1254**	**33**	**49**
11096-82-5	**Aroclor 1260**	**33**	**33 J**
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	120%
Tetrachlorometaxylene	96.0%

54.5105

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 3.81 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.4
Percent Moisture: 5.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	100	< 100 U
53469-21-9	Aroclor 1242	100	< 100 U
12672-29-6	Aroclor 1248	100	< 100 U
11097-69-1	**Aroclor 1254**	**100**	**330**
11096-82-5	**Aroclor 1260**	**100**	**210**
11104-28-2	Aroclor 1221	100	< 100 U
11141-16-5	Aroclor 1232	100	< 100 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	142%
Tetrachlorometaxylene	93.2%

5.4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 5.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	**Aroclor 1254**	**32**	**80**
11096-82-5	**Aroclor 1260**	**32**	**45**
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	130%
Tetrachlorometaxylene	95.0%

94-5-05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized: TWW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:40
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 20.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	122%
Tetrachlorometaxylene	86.0%

9.4.05
000153

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:57
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 2.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	123%
Tetrachlorometaxylene	100%

CJ 4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 17:48
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 5.2
Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	116%
Tetrachlorometaxylene	106%

G4-5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:05
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 5.8
Percent Moisture: 22.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	109%
Tetrachlorometaxylene	91.5%

4/5/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:22
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 5.11 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.6
Percent Moisture: 15.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	78	< 78 U
53469-21-9	Aroclor 1242	78	< 78 U
12672-29-6	Aroclor 1248	78	< 78 U
11097-69-1	**Aroclor 1254**	**78**	**230**
11096-82-5	**Aroclor 1260**	**78**	**77 J**
11104-28-2	Aroclor 1221	78	< 78 U
11141-16-5	Aroclor 1232	78	< 78 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	133%
Tetrachlorometaxylene	102%

9/4/5/05
000159

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:39
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.3
Percent Moisture: 11.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	88.5%

4/5/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:56
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.8
Percent Moisture: 22.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	121%
Tetrachlorometaxylene	98.0%

4/15/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized: WW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 19:13
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.7
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	117%
Tetrachlorometaxylene	97.0%

G 4/5/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 19:30
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	113%
Tetrachlorometaxylene	96.2%

54.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 19:47
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 21.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate	Recovery
Decachlorobiphenyl	104%
Tetrachlorometaxylene	90.8%

4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 20:04
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.4
Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	**Aroclor 1254**	**33**	**63**
11096-82-5	**Aroclor 1260**	**33**	**41**
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	85.5%

94.505
000165

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 20:21
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 31.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	82.8%

4/5/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/18/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 22:54
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 21.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	82.8%

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 20:33
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.96 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 11.8 %
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	**2-Methylnaphthalene**	**6.3**	**21**
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	**Phenanthrene**	**6.3**	**14**
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U UJ✓
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	57.0%
d14-Dibenzo(a,h)anthracene	80.7%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 17:54
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 15.6 %
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**9.2**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	**Pyrene**	**6.5**	**7.2**
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	**Chrysene**	**6.5**	**11**
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	61.7%
d14-Dibenzo(a,h)anthracene	45.3%

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 20:58
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.7 %
pH: 7.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	**Fluoranthene**	**6.6**	**7.9**
129-00-0	**Pyrene**	**6.6**	**8.6**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	**Chrysene**	**6.6**	**9.3**
205-99-2	**Benzo(b)fluoranthene**	**6.6**	**14**
207-08-9	**Benzo(k)fluoranthene**	**6.6**	**11**
50-32-8	**Benzo(a)pyrene**	**6.6**	**7.3**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**6.6**	**9.9**
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U UJ
191-24-2	**Benzo(g,h,i)perylene**	**6.6**	**13**
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	53.7%
d14-Dibenzo(a,h)anthracene	60.0%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 21:23
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.0 %
pH: 7.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**17**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U UJ
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	59.0%
d14-Dibenzo(a,h)anthracene	64.7%

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 21:48
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 20.8 %
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U UJ
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	56.0%
d14-Dibenzo(a,h)anthracene	64.0%

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 22:13
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 2.6 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U UJ
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	57.7%
d14-Dibenzo(a,h)anthracene	69.3%

9 4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:28
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.90 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 25.1 %
pH: 5.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	37.7%
d14-Dibenzo(a,h)anthracene	63.0%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 16:38
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 22.4 %
pH: 5.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	45.3%
d14-Dibenzo(a,h)anthracene	89.3%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-5-10
REANALYSIS

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 16:50
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 22.4 %
pH: 5.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	48.3%
d14-Dibenzo(a,h)anthracene	66.3%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 19:46
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.63 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 3.00
Percent Moisture: 15.4 %
pH: 8.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	**Phenanthrene**	**20**	**22**
120-12-7	Anthracene	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**41**
129-00-0	**Pyrene**	**20**	**53**
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	**Chrysene**	**20**	**30**
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	**Benzo(a)pyrene**	**20**	**33**
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.0%
d14-Dibenzo(a,h)anthracene	47.0%

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 17:28
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 11.2 %
pH: 8.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	**2-Methylnaphthalene**	**6.6**	**11**
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.7%
d14-Dibenzo(a,h)anthracene	73.0%

5-4-05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 13:31
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.73 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 22.9 %
pH: 7.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	Phenanthrene	6.5	< 6.5 U
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	56.7%
d14-Dibenzo(a,h)anthracene	86.0%

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 20:08
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.3 %
pH: 7.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracene	86.3%

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 18:19
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.3 %
pH: 7.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.7%
d14-Dibenzo(a,h)anthracene	102%

9 4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-7-5
REANALYSIS

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:15
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 7.3 %
pH: 7.6

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.3	< 6.3 U
91-57-6	2-Methylnaphthalene	6.3	< 6.3 U
208-96-8	Acenaphthylene	6.3	< 6.3 U
83-32-9	Acenaphthene	6.3	< 6.3 U
86-73-7	Fluorene	6.3	< 6.3 U
85-01-8	Phenanthrene	6.3	< 6.3 U
120-12-7	Anthracene	6.3	< 6.3 U
206-44-0	Fluoranthene	6.3	< 6.3 U
129-00-0	Pyrene	6.3	< 6.3 U
56-55-3	Benzo(a)anthracene	6.3	< 6.3 U
218-01-9	Chrysene	6.3	< 6.3 U
205-99-2	Benzo(b)fluoranthene	6.3	< 6.3 U
207-08-9	Benzo(k)fluoranthene	6.3	< 6.3 U
50-32-8	Benzo(a)pyrene	6.3	< 6.3 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	< 6.3 U
53-70-3	Dibenz(a,h)anthracene	6.3	< 6.3 U
191-24-2	Benzo(g,h,i)perylene	6.3	< 6.3 U
132-64-9	Dibenzofuran	6.3	< 6.3 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	61.3%
d14-Dibenzo(a,h)anthracene	90.3%

3.4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 19:09
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 21.5 %
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	55.0%
d14-Dibenzo(a,h)anthracene	20.7%

G4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-7-10
REANALYSIS

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:40
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 21.5 %
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.7%
d14-Dibenzo(a,h)anthracene	81.0%

4.5.05
000134

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 18:44
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.70 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 9.6 %
pH: 7.4

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**7.8**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	**Fluoranthene**	**6.5**	**13**
129-00-0	**Pyrene**	**6.5**	**16**
56-55-3	**Benzo(a)anthracene**	**6.5**	**9.1**
218-01-9	**Chrysene**	**6.5**	**12**
205-99-2	**Benzo(b)fluoranthene**	**6.5**	**15**
207-08-9	**Benzo(k)fluoranthene**	**6.5**	**15**
50-32-8	**Benzo(a)pyrene**	**6.5**	**9.7**
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracene	42.0%

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 21:24
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 31.5 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**11**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	**Fluoranthene**	**6.6**	**21**
129-00-0	**Pyrene**	**6.6**	**18**
56-55-3	**Benzo(a)anthracene**	**6.6**	**7.3**
218-01-9	**Chrysene**	**6.6**	**8.6**
205-99-2	**Benzo(b)fluoranthene**	**6.6**	**7.9**
207-08-9	**Benzo(k)fluoranthene**	**6.6**	**5.3 J**
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	53.7%
d14-Dibenzo(a,h)anthracene	61.3%

4.4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 18:05
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 21.9 %
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	37.3%
d14-Dibenzo(a,h)anthracene	73.3%

94.5705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 21:49
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.13 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 3.00
Percent Moisture: 5.2 %
pH: 6.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	21	< 21 U
91-57-6	2-Methylnaphthalene	21	< 21 U
208-96-8	**Acenaphthylene**	**21**	**120**
83-32-9	**Acenaphthene**	**21**	**59**
86-73-7	Fluorene	21	< 21 U
85-01-8	**Phenanthrene**	**21**	**34**
120-12-7	**Anthracene**	**21**	**99**
206-44-0	**Fluoranthene**	**21**	**510**
129-00-0	**Pyrene**	**21**	**580**
56-55-3	**Benzo(a)anthracene**	**21**	**210**
218-01-9	**Chrysene**	**21**	**240**
205-99-2	**Benzo(b)fluoranthene**	**21**	**290**
207-08-9	**Benzo(k)fluoranthene**	**21**	**170**
50-32-8	**Benzo(a)pyrene**	**21**	**220**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**21**	**95**
53-70-3	**Dibenz(a,h)anthracene**	**21**	**30**
191-24-2	**Benzo(g,h,i)perylene**	**21**	**82**
132-64-9	Dibenzofuran	21	< 21 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	57.0%
d14-Dibenzo(a,h)anthracene	64.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 18:27
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.88 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 17.1 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.4	< 6.4 U
91-57-6	2-Methylnaphthalene	6.4	< 6.4 U
208-96-8	Acenaphthylene	6.4	< 6.4 U
83-32-9	Acenaphthene	6.4	< 6.4 U
86-73-7	Fluorene	6.4	< 6.4 U
85-01-8	Phenanthrene	6.4	< 6.4 U
120-12-7	Anthracene	6.4	< 6.4 U
206-44-0	Fluoranthene	6.4	< 6.4 U
129-00-0	Pyrene	6.4	< 6.4 U
56-55-3	Benzo(a)anthracene	6.4	< 6.4 U
218-01-9	Chrysene	6.4	< 6.4 U
205-99-2	Benzo(b)fluoranthene	6.4	< 6.4 U
207-08-9	Benzo(k)fluoranthene	6.4	< 6.4 U
50-32-8	Benzo(a)pyrene	6.4	< 6.4 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.4	< 6.4 U
53-70-3	Dibenz(a,h)anthracene	6.4	< 6.4 U UJ
191-24-2	Benzo(g,h,i)perylene	6.4	< 6.4 U
132-64-9	Dibenzofuran	6.4	< 6.4 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	50.7%
d14-Dibenzo(a,h)anthracene	92.7%

94.505

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 18:52
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 27.6 %
pH: 6.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	Phenanthrene	6.5	< 6.5 U
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U UJ
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	41.3%
d14-Dibenzo(a,h)anthracene	52.0%

94.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/16/05 19:17
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U UJ
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracene	86.0%

AJ 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 14:43
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.96 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.8%
pH: 7.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	310	< 310 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	310	< 310 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U UJ
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U

54.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Date Analyzed: 03/18/05 14:43

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U UJ
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.8%	2-Fluorobiphenyl	48.4%
d14-p-Terphenyl	65.6%	d4-1,2-Dichlorobenzene	46.4%
d5-Phenol	48.8%	2-Fluorophenol	45.9%
2,4,6-Tribromophenol	60.5%	d4-2-Chlorophenol	49.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 16:59
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.6%
pH: 6.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-10
SAMPLE

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Date Analyzed: 03/21/05 16:59

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U UJ
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	51.6%	2-Fluorobiphenyl	55.6%
d14-p-Terphenyl	57.2%	d4-1,2-Dichlorobenzene	49.2%
d5-Phenol	49.9%	2-Fluorophenol	46.9%
2,4,6-Tribromophenol	58.4%	d4-2-Chlorophenol	53.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 15:16
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.7%
pH: 7.4

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-1
SAMPLE

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Date Analyzed: 03/18/05 15:16

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U UJ
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	43.2%	2-Fluorobiphenyl	45.2%
d14-p-Terphenyl	52.8%	d4-1,2-Dichlorobenzene	44.0%
d5-Phenol	45.1%	2-Fluorophenol	40.8%
2,4,6-Tribromophenol	48.5%	d4-2-Chlorophenol	46.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.2D0
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 15:49
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.0%
pH: 7.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U

54.505

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-5
SAMPLE

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Date Analyzed: 03/18/05 15:49

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U UJ
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.8%	2-Fluorobiphenyl	50.4%
d14-p-Terphenyl	56.0%	d4-1,2-Dichlorobenzene	47.2%
d5-Phenol	42.9%	2-Fluorophenol	41.9%
2,4,6-Tribromophenol	53.1%	d4-2-Chlorophenol	48.3%

5/4/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 16:22
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.8%
pH: 6.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

3.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Date Analyzed: 03/18/05 16:22

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U UJ
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	49.6%	2-Fluorobiphenyl	50.4%
d14-p-Terphenyl	58.8%	d4-1,2-Dichlorobenzene	50.0%
d5-Phenol	46.4%	2-Fluorophenol	47.7%
2,4,6-Tribromophenol	52.5%	d4-2-Chlorophenol	51.7%

G4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 16:55
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.79 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 2.6%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 UUJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Date Analyzed: 03/18/05 16:55

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U UJ
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	46.0%	2-Fluorobiphenyl	48.8%
d14-p-Terphenyl	56.8%	d4-1,2-Dichlorobenzene	46.4%
d5-Phenol	41.6%	2-Fluorophenol	42.7%
2,4,6-Tribromophenol	45.6%	d4-2-Chlorophenol	47.2%

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 17:31
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.90 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.1%
pH: 5.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

94.505

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Date Analyzed: 03/21/05 17:31

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	32.1%	2-Fluorobiphenyl	35.2%
d14-p-Terphenyl	40.0%	d4-1,2-Dichlorobenzene	30.6%
d5-Phenol	31.5%	2-Fluorophenol	29.9%
2,4,6-Tribromophenol	38.4%	d4-2-Chlorophenol	32.3%

5/4 5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-S-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 18:01
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.4%
pH: 5.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

5.4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Date Analyzed: 03/18/05 18:01

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U UJ
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	36.1%	2-Fluorobiphenyl	37.9%
d14-p-Terphenyl	46.4%	d4-1,2-Dichlorobenzene	35.9%
d5-Phenol	30.9%	2-Fluorophenol	32.8%
2,4,6-Tribromophenol	32.8%	d4-2-Chlorophenol	36.8%

54.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 18:04
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.63 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.4%
pH: 8.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U UJ
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

94.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Date Analyzed: 03/21/05 18:04

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	**Di-n-Butylphthalate**	**66**	**84**
206-44-0	Fluoranthene	66	< 66 U
129-00-0	**Pyrene**	**66**	**66**
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**66**	**100**
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.8%	2-Fluorobiphenyl	81.6%
d14-p-Terphenyl	81.6%	d4-1,2-Dichlorobenzene	72.8%
d5-Phenol	76.0%	2-Fluorophenol	70.1%
2,4,6-Tribromophenol	70.1%	d4-2-Chlorophenol	78.4%

8 4.505

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 18:33
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.2%
pH: 8.3

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

S 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4482
Matrix: Soil
Date Analyzed: 03/18/05 18:33

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U UJ
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	48.4%	2-Fluorobiphenyl	50.0%
d14-p-Terphenyl	57.6%	d4-1,2-Dichlorobenzene	50.4%
d5-Phenol	40.0%	2-Fluorophenol	43.2%
2,4,6-Tribromophenol	45.6%	d4-2-Chlorophenol	49.6%

5 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 19:06
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.73 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.9%
pH: 7.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ ✓
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-6-10
SAMPLE

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Date Analyzed: 03/18/05 19:06

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U WJ
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	52.0%	2-Fluorobiphenyl	53.6%
d14-p-Terphenyl	61.6%	d4-1,2-Dichlorobenzene	53.2%
d5-Phenol	42.7%	2-Fluorophenol	48.8%
2,4,6-Tribromophenol	45.9%	d4-2-Chlorophenol	53.3%

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 19:39
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%
pH: 7.7

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Date Analyzed: 03/18/05 19:39

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 UUJ
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.6%	2-Fluorobiphenyl	58.4%
d14-p-Terphenyl	67.2%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	42.1%	2-Fluorophenol	44.5%
2,4,6-Tribromophenol	24.3%	d4-2-Chlorophenol	51.5%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/23/05 23:47
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%
pH: 7.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Date Analyzed: 03/23/05 23:47

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U UJ
205-99-2	Benzo(b)fluoranthene	63	< 63 U UJ
207-08-9	Benzo(k)fluoranthene	63	< 63 U UJ
50-32-8	Benzo(a)pyrene	63	< 63 U UJ
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U UJ
53-70-3	Dibenz(a,h)anthracene	63	< 63 U UJ
191-24-2	Benzo(g,h,i)perylene	63	< 63 U UJ

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	71.2%
d14-p-Terphenyl	90.4%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	67.7%	2-Fluorophenol	55.5%
2,4,6-Tribromophenol	60.5%	d4-2-Chlorophenol	63.7%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
REANALYSIS

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 14:15
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%
pH: 7.6

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-5
REANALYSIS

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Date Analyzed: 03/21/05 14:15

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U UJ
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U UJ
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.4%	2-Fluorobiphenyl	68.8%
d14-p-Terphenyl	87.6%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	61.6%	2-Fluorophenol	52.8%
2,4,6-Tribromophenol	62.9%	d4-2-Chlorophenol	61.1%

8/4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 14:47
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.5%
pH: 7.0

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-7-10
SAMPLE

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Date Analyzed: 03/21/05 14:47

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.8%	2-Fluorobiphenyl	52.0%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	50.4%
d5-Phenol	46.4%	2-Fluorophenol	43.2%
2,4,6-Tribromophenol	41.1%	d4-2-Chlorophenol	47.7%

5/4.5/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:18
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.70 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 9.6%
pH: 7.4

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U UJ
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U

SJ 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-B-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Date Analyzed: 03/22/05 17:18

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U UJ
100-02-7	4-Nitrophenol	320	< 320 U UJ
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	57.2%	2-Fluorobiphenyl	64.4%
d14-p-Terphenyl	67.6%	d4-1,2-Dichlorobenzene	56.4%
d5-Phenol	66.4%	2-Fluorophenol	56.5%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	64.0%

SJ 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 15:53
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.5%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U UJ
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Date Analyzed: 03/21/05 15:53

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	43.6%	2-Fluorobiphenyl	47.2%
d14-p-Terphenyl	56.4%	d4-1,2-Dichlorobenzene	42.4%
d5-Phenol	44.3%	2-Fluorophenol	41.3%
2,4,6-Tribromophenol	52.3%	d4-2-Chlorophenol	44.5%

SU-S-05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 17:51
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.85 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.9%
pH: 7.1

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U UJ
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

6.4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-8-10
SAMPLE

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Date Analyzed: 03/22/05 17:51

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U UJ
100-02-7	4-Nitrophenol	320	< 320 U UJ
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	35.5%	2-Fluorobiphenyl	38.4%
d14-p-Terphenyl	44.8%	d4-1,2-Dichlorobenzene	33.3%
d5-Phenol	37.1%	2-Fluorophenol	31.5%
2,4,6-Tribromophenol	40.3%	d4-2-Chlorophenol	36.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 16:26
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.13 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.2%
pH: 6.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	70	< 70 U
111-44-4	Bis-(2-Chloroethyl) Ether	70	< 70 U
95-57-8	2-Chlorophenol	70	< 70 U
541-73-1	1,3-Dichlorobenzene	70	< 70 U
106-46-7	1,4-Dichlorobenzene	70	< 70 U
100-51-6	Benzyl Alcohol	350	< 350 U UJ
95-50-1	1,2-Dichlorobenzene	70	< 70 U
95-48-7	2-Methylphenol	70	< 70 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	70	< 70 U
106-44-5	4-Methylphenol	70	< 70 U
621-64-7	N-Nitroso-Di-N-Propylamine	350	< 350 U
67-72-1	Hexachloroethane	70	< 70 U
98-95-3	Nitrobenzene	70	< 70 U
78-59-1	Isophorone	70	< 70 U
88-75-5	2-Nitrophenol	350	< 350 U
105-67-9	2,4-Dimethylphenol	70	< 70 U
65-85-0	Benzoic Acid	700	< 700 U
111-91-1	bis(2-Chloroethoxy) Methane	70	< 70 U
120-83-2	2,4-Dichlorophenol	350	< 350 U
120-82-1	1,2,4-Trichlorobenzene	70	< 70 U
91-20-3	Naphthalene	70	< 70 U
106-47-8	4-Chloroaniline	350	< 350 U
87-68-3	Hexachlorobutadiene	70	< 70 U
59-50-7	4-Chloro-3-methylphenol	350	< 350 U
91-57-6	2-Methylnaphthalene	70	< 70 U
77-47-4	Hexachlorocyclopentadiene	350	< 350 U UJ
88-06-2	2,4,6-Trichlorophenol	350	< 350 U
95-95-4	2,4,5-Trichlorophenol	350	< 350 U
91-58-7	2-Chloronaphthalene	70	< 70 U
88-74-4	2-Nitroaniline	350	< 350 U
131-11-3	Dimethylphthalate	70	< 70 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-1
SAMPLE

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Date Analyzed: 03/21/05 16:26

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	**Acenaphthylene**	**70**	**75**
99-09-2	3-Nitroaniline	350	< 350 U
83-32-9	Acenaphthene	70	< 70 U
51-28-5	2,4-Dinitrophenol	700	< 700 U
100-02-7	4-Nitrophenol	350	< 350 U
132-64-9	Dibenzofuran	70	< 70 U
606-20-2	2,6-Dinitrotoluene	350	< 350 U
121-14-2	2,4-Dinitrotoluene	350	< 350 U
84-66-2	Diethylphthalate	70	< 70 U
7005-72-3	4-Chlorophenyl-phenylether	70	< 70 U
86-73-7	Fluorene	70	< 70 U
100-01-6	4-Nitroaniline	350	< 350 U
534-52-1	4,6-Dinitro-2-Methylphenol	700	< 700 U
86-30-6	N-Nitrosodiphenylamine	70	< 70 U
101-55-3	4-Bromophenyl-phenylether	70	< 70 U
118-74-1	Hexachlorobenzene	70	< 70 U
87-86-5	Pentachlorophenol	350	< 350 U
85-01-8	Phenanthrene	70	< 70 U
86-74-8	Carbazole	70	< 70 U
120-12-7	**Anthracene**	**70**	**72**
84-74-2	**Di-n-Butylphthalate**	**70**	**180**
206-44-0	**Fluoranthene**	**70**	**510**
129-00-0	**Pyrene**	**70**	**520**
85-68-7	Butylbenzylphthalate	70	< 70 U
91-94-1	3,3'-Dichlorobenzidine	350	< 350 U
56-55-3	**Benzo(a)anthracene**	**70**	**180**
117-81-7	bis(2-Ethylhexyl)phthalate	70	< 70 U
218-01-9	**Chrysene**	**70**	**240**
117-84-0	Di-n-Octyl phthalate	70	< 70 U
205-99-2	**Benzo(b)fluoranthene**	**70**	**230**
207-08-9	**Benzo(k)fluoranthene**	**70**	**210**
50-32-8	**Benzo(a)pyrene**	**70**	**230**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**70**	**110**
53-70-3	Dibenz(a,h)anthracene	70	< 70 U
191-24-2	**Benzo(g,h,i)perylene**	**70**	**86**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	54.0%	2-Fluorobiphenyl	56.4%
d14-p-Terphenyl	55.6%	d4-1,2-Dichlorobenzene	51.2%
d5-Phenol	49.1%	2-Fluorophenol	48.8%
2,4,6-Tribromophenol	58.1%	d4-2-Chlorophenol	54.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 11:58
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.88 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.1%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	**Hexachlorobutadiene**	**64**	**340**
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 UuJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U

SJ4.505

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-5
SAMPLE

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Date Analyzed: 03/18/05 11:58

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U UJ
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	45.6%	2-Fluorobiphenyl	49.2%
d14-p-Terphenyl	64.4%	d4-1,2-Dichlorobenzene	46.0%
d5-Phenol	43.5%	2-Fluorophenol	35.5%
2,4,6-Tribromophenol	23.0%	d4-2-Chlorophenol	41.3%

SJ 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 12:31
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.6%
pH: 6.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-2-10
SAMPLE

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Date Analyzed: 03/18/05 12:31

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U UJ
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	36.1%	2-Fluorobiphenyl	39.5%
d14-p-Terphenyl	52.4%	d4-1,2-Dichlorobenzene	34.2%
d5-Phenol	39.7%	2-Fluorophenol	36.8%
2,4,6-Tribromophenol	46.4%	d4-2-Chlorophenol	39.5%

9.4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 13:04
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-3-1
SAMPLE

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Date Analyzed: 03/18/05 13:04

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	49.6%	2-Fluorobiphenyl	54.8%
d14-p-Terphenyl	64.8%	d4-1,2-Dichlorobenzene	47.6%
d5-Phenol	53.6%	2-Fluorophenol	48.3%
2,4,6-Tribromophenol	60.3%	d4-2-Chlorophenol	52.8%

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-7-1
SAMPLE

Lab Sample ID: HU77Q
LIMS ID: 05-4484
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 18:06

Sample Amount: 4.84 g-dry-wt
Percent Moisture: 6.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	**Acetone**	**5.2**	**5.3**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	112%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	101%

94.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-7-5
SAMPLE

Lab Sample ID: HU77R
LIMS ID: 05-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 18:33

Sample Amount: 4.43 g-dry-wt
Percent Moisture: 11.8%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	**Acetone**	**5.6**	**8.1** u
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.6	< 5.6 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.6	< 5.6 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.6	< 5.6 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.6	< 5.6 U
591-78-6	2-Hexanone	5.6	< 5.6 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	113%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	103%

5.4.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-7-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77S
LIMS ID: 05-4486
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 19:01

Sample Amount: 4.38 g-dry-wt
Percent Moisture: 16.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	**Acetone**	**5.7**	**11** u
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.7	< 5.7 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.7	< 5.7 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.7	< 5.7 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.7	< 5.7 U
591-78-6	2-Hexanone	5.7	< 5.7 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	129%
d8-Toluene	115%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	103%

3.4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-8-1
SAMPLE

Lab Sample ID: HU77T
LIMS ID: 05-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 19:28

Sample Amount: 4.63 g-dry-wt
Percent Moisture: 11.9%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	Acetone	5.4	< 5.4 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	109%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	101%

54.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-8-5
SAMPLE

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 19:56

Sample Amount: 3.57 g-dry-wt
Percent Moisture: 31.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	Vinyl Chloride	1.4	< 1.4 U
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.8	< 2.8 U
67-64-1	**Acetone**	**7.0**	**78**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**7.0**	**16**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	7.0	< 7.0 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	7.0	< 7.0 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.0	< 7.0 U
591-78-6	2-Hexanone	7.0	< 7.0 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U UJ ✓
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.8	< 2.8 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	111%
Bromofluorobenzene	95.1%
d4-1,2-Dichlorobenzene	105%

SY4.5.05 000039

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-8-5
REANALYSIS

Lab Sample ID: HU77U
LIMS ID: 05-4488
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 16:13

Sample Amount: 3.67 g-dry-wt
Percent Moisture: 31.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	Vinyl Chloride	1.4	< 1.4 U
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.7	< 2.7 U
67-64-1	**Acetone**	**6.8**	**140**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**6.8**	**29**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	6.8	< 6.8 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	6.8	< 6.8 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.8	< 6.8 U
591-78-6	2-Hexanone	6.8	< 6.8 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U UJ
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.7	< 2.7 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	109%
Bromofluorobenzene	94.6%
d4-1,2-Dichlorobenzene	103%

8.4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-8-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77V
LIMS ID: 05-4489
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 20:24

Sample Amount: 3.86 g-dry-wt
Percent Moisture: 26.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	**Acetone**	**6.5**	**64**
75-15-0	Carbon Disulfide	1.3	< 1.3 U
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	**2-Butanone**	**6.5**	**12**
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.5	< 6.5 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	Trichloroethene	1.3	< 1.3 U
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.5	< 6.5 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.5	< 6.5 U
591-78-6	2-Hexanone	6.5	< 6.5 U
127-18-4	Tetrachloroethene	1.3	< 1.3 U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	111%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	100%

GJ 4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HU77W
LIMS ID: 05-4490
Matrix: Water
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 02/22/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 14:25

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**7.6**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	**Benzene**	**1.0**	**4.4**
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

HU94.605

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	107%
Bromofluorobenzene	110%
d4-1,2-Dichlorobenzene	103%

JU.5705

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-2-1**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77A
LIMS ID: 05-4468
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 18:24

Sample Amount: 4.26 g-dry-wt
Percent Moisture: 15.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.3	< 2.3 U
67-64-1	Acetone	5.9	< 5.9 U
75-15-0	Carbon Disulfide	1.2	< 1.2 U UJ
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	2-Butanone	5.9	< 5.9 U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	5.9	< 5.9 U UJ
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	**Trichloroethene**	**1.2**	**2.0**
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	5.9	< 5.9 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.9	< 5.9 U UJ
591-78-6	2-Hexanone	5.9	< 5.9 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U UJ
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.3	< 2.3 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.7%
d8-Toluene	103%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	92.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-2-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77B
LIMS ID: 05-4469
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 18:51

Sample Amount: 4.82 g-dry-wt
Percent Moisture: 6.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.2	< 5.2 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U UJ
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	80.4%
d8-Toluene	102%
Bromofluorobenzene	91.9%
d4-1,2-Dichlorobenzene	91.6%

SU.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-2-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77C
LIMS ID: 05-4470
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 19:17

Sample Amount: 5.08 g-dry-wt
Percent Moisture: 6.2%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**4.9**	**47**
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**2.5**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	**2-Butanone**	**4.9**	**13**
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	4.9	< 4.9 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	4.9	< 4.9 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	< 4.9 U UJ
591-78-6	2-Hexanone	4.9	< 4.9 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	76.1%
d8-Toluene	96.4%
Bromofluorobenzene	87.5%
d4-1,2-Dichlorobenzene	91.5%

54.505

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-3-1**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77D
LIMS ID: 05-4471
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 19:43

Sample Amount: 3.89 g-dry-wt
Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	Acetone	6.4	< 6.4 U
75-15-0	Carbon Disulfide	1.3	< 1.3 U UJ
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	2-Butanone	6.4	< 6.4 U
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.4	< 6.4 U UJ
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	**Trichloroethene**	**1.3**	**1.6**
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.4	< 6.4 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.4	< 6.4 U UJ
591-78-6	2-Hexanone	6.4	< 6.4 U
127-18-4	**Tetrachloroethene**	**1.3**	**2.7**
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U UJ
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	82.4%
d8-Toluene	102%
Bromofluorobenzene	93.9%
d4-1,2-Dichlorobenzene	93.3%

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FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-3-5
SAMPLE

Lab Sample ID: HU77E
LIMS ID: 05-4472
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 20:10

Sample Amount: 4.75 g-dry-wt
Percent Moisture: 5.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.3	< 5.3 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U UJ
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.3	< 5.3 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.3	< 5.3 U UJ
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**4.5**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.3	< 5.3 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3	< 5.3 U UJ
591-78-6	2-Hexanone	5.3	< 5.3 U
127-18-4	**Tetrachloroethene**	**1.1**	**3.6**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U UJ
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.2%
d8-Toluene	100%
Bromofluorobenzene	92.2%
d4-1,2-Dichlorobenzene	94.2%

gh 5-05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-3-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77F
LIMS ID: 05-4473
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 20:36

Sample Amount: 4.88 g-dry-wt
Percent Moisture: 9.0%

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	1.0	< 1.0 U	
74-83-9	Bromomethane	1.0	< 1.0 U	
75-01-4	**Vinyl Chloride**	**1.0**	**9.5**	
75-00-3	Chloroethane	1.0	< 1.0 U	
75-09-2	Methylene Chloride	2.0	< 2.0 U	
67-64-1	**Acetone**	**5.1**	**26**	U
75-15-0	Carbon Disulfide	1.0	< 1.0 U	UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U	
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U	
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U	
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U	
67-66-3	Chloroform	1.0	< 1.0 U	
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U	
78-93-3	**2-Butanone**	**5.1**	**6.2**	
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U	
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U	
108-05-4	Vinyl Acetate	5.1	< 5.1 U	UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U	
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U	
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U	
79-01-6	**Trichloroethene**	**1.0**	**1.7**	
124-48-1	Dibromochloromethane	1.0	< 1.0 U	
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U	
71-43-2	Benzene	1.0	< 1.0 U	
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U	
110-75-8	2-Chloroethylvinylether	5.1	< 5.1 U	
75-25-2	Bromoform	1.0	< 1.0 U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.1	< 5.1 U	UJ
591-78-6	2-Hexanone	5.1	< 5.1 U	
127-18-4	Tetrachloroethene	1.0	< 1.0 U	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U	
108-88-3	Toluene	1.0	< 1.0 U	
108-90-7	Chlorobenzene	1.0	< 1.0 U	
100-41-4	Ethylbenzene	1.0	< 1.0 U	
100-42-5	Styrene	1.0	< 1.0 U	UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U	
1330-20-7	m,p-Xylene	1.0	< 1.0 U	
95-47-6	o-Xylene	1.0	< 1.0 U	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	79.3%
d8-Toluene	99.4%
Bromofluorobenzene	87.9%
d4-1,2-Dichlorobenzene	92.1%

54.505

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-4-1**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77G
LIMS ID: 05-4474
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 21:02

Sample Amount: 5.03 g-dry-wt
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U UJ
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	**Tetrachloroethene**	**1.0**	**1.1**
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	77.4%
d8-Toluene	97.1%
Bromofluorobenzene	94.8%
d4-1,2-Dichlorobenzene	92.6%

5.4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-4-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77H
LIMS ID: 05-4475
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 21:28

Sample Amount: 4.79 g-dry-wt
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.2	< 5.2 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U UJ
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	**Tetrachloroethene**	**1.0**	**1.7**
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	82.3%
d8-Toluene	101%
Bromofluorobenzene	93.2%
d4-1,2-Dichlorobenzene	91.6%

S 4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-4-10
SAMPLE

Lab Sample ID: HU77I
LIMS ID: 05-4476
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 21:54

Sample Amount: 3.69 g-dry-wt
Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	**Vinyl Chloride**	**1.4**	**6.5**
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.7	< 2.7 U
67-64-1	**Acetone**	**6.8**	**34** UJ
75-15-0	Carbon Disulfide	1.4	< 1.4 U UJ
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**6.8**	**9.3**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	6.8	< 6.8 U UJ
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	6.8	< 6.8 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.8	< 6.8 U UJ
591-78-6	2-Hexanone	6.8	< 6.8 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U UJ
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.7	< 2.7 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	74.8%
d8-Toluene	98.9%
Bromofluorobenzene	89.4%
d4-1,2-Dichlorobenzene	91.9%

4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-5-1
SAMPLE

Lab Sample ID: HU77K
LIMS ID: 05-4478
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN1/JA
Date Analyzed: 03/14/05 22:20

Sample Amount: 4.91 g-dry-wt
Percent Moisture: 7.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	**Methylene Chloride**	**2.0**	**5.7**
67-64-1	Acetone	5.1	< 5.1 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U UJ
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.1	< 5.1 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.1	< 5.1 U UJ
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**3.7**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.1	< 5.1 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.1	< 5.1 U UJ
591-78-6	2-Hexanone	5.1	< 5.1 U
127-18-4	**Tetrachloroethene**	**1.0**	**110**
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U UJ
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.5%
d8-Toluene	99.0%
Bromofluorobenzene	89.9%
d4-1,2-Dichlorobenzene	92.2%

S4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-5-5
SAMPLE

Lab Sample ID: HU77L
LIMS ID: 05-4479
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: EU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 14:52

Sample Amount: 4.10 g-dry-wt
Percent Moisture: 20.1%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.4	< 2.4 U
67-64-1	Acetone	6.1	< 6.1 U
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	2-Butanone	6.1	< 6.1 U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.1	< 6.1 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	**Trichloroethene**	**1.2**	**4.5**
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.1	< 6.1 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.1	< 6.1 U
591-78-6	2-Hexanone	6.1	< 6.1 U
127-18-4	**Tetrachloroethene**	**1.2**	**46**
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.4	< 2.4 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	106%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	99.0%

9 4.5.05

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FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-5-10
SAMPLE

Lab Sample ID: HU77M
LIMS ID: 05-4480
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 15:20

Sample Amount: 3.85 g-dry-wt
Percent Moisture: 26.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	**Vinyl Chloride**	**1.3**	**11**
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	**Acetone**	**6.5**	**110**
75-15-0	**Carbon Disulfide**	**1.3**	**1.4**
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	**trans-1,2-Dichloroethene**	**1.3**	**1.9**
156-59-2	**cis-1,2-Dichloroethene**	**1.3**	**48**
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	**2-Butanone**	**6.5**	**19**
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.5	< 6.5 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	**Trichloroethene**	**1.3**	**19**
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.5	< 6.5 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.5	< 6.5 U
591-78-6	2-Hexanone	6.5	< 6.5 U
127-18-4	**Tetrachloroethene**	**1.3**	**57**
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	121%
d8-Toluene	107%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	103%

G4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-6-1
SAMPLE

Lab Sample ID: HU77N
LIMS ID: 05-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 15:48

Sample Amount: 4.58 g-dry-wt
Percent Moisture: 11.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	**Acetone**	**5.5**	**9.0** u
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.5	< 5.5 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.5	< 5.5 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	Trichloroethene	1.1	< 1.1 U
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5 U
591-78-6	2-Hexanone	5.5	< 5.5 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	108%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	101%

54.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-6-5
SAMPLE

Lab Sample ID: HU770
LIMS ID: 05-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 16:19

Sample Amount: 4.14 g-dry-wt
Percent Moisture: 21.9%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.4	< 2.4 U
67-64-1	Acetone	6.0	< 6.0 U
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	2-Butanone	6.0	< 6.0 U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.0	< 6.0 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	Trichloroethene	1.2	< 1.2 U
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.0	< 6.0 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.0	< 6.0 U
591-78-6	2-Hexanone	6.0	< 6.0 U
127-18-4	**Tetrachloroethene**	**1.2**	**3.4**
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.4	< 2.4 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	109%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	104%

54.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-6-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU77P
LIMS ID: 05-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/21/05

QC Report No: HU77-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/07/05
Date Received: 03/07/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/16/05 16:43

Sample Amount: 3.51 g-dry-wt
Percent Moisture: 33.5%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	Vinyl Chloride	1.4	< 1.4 U
75-00-3	Chloroethane	1.4	< 1.4 U
75-09-2	Methylene Chloride	2.8	< 2.8 U
67-64-1	**Acetone**	**7.1**	**74**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	1,1-Dichloroethane	1.4	< 1.4 U
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	cis-1,2-Dichloroethene	1.4	< 1.4 U
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**7.1**	**13**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	7.1	< 7.1 U UJ
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	7.1	< 7.1 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.1	< 7.1 U
591-78-6	2-Hexanone	7.1	< 7.1 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	Toluene	1.4	< 1.4 U
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.8	< 2.8 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	107%
Bromofluorobenzene	97.6%
d4-1,2-Dichlorobenzene	104%

3.4.5.05

000032

FORM

INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: P2DG South Yard
LABORATORY: ABI	SDG: HU86

SAMPLES/MATRIX/ANALYSES: Water - Dissolved Metals

SY-DP-01-15-F SY-DP-01-15 - Hg + metals.

SY-DP-09-15-F } Hg, metals

SY-DP-10-18-F

SY-DP-11-17-F

SY-DP-12-15-F

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	HG (low level)	CYANIDE	OTHER (Cr+6)
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS	O		—		O Scan
7. Duplicate RPD	—		O		O
8. Spike Recovery	—		ORO		O
9. MSA	—		—		—
10. Other QC	O		—		—
11. Field Duplicates	—		—		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

Validated by: Christin [illegible] Date: 4.7.05

Reviewed by: [illegible] Date: 4/29/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
Q ✓ Standard Addition Results
✓ ICP Serial Dilution
✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:_____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

__Detects reported in ICB/CCB, list:

__Detects in preparation blanks, list:

__Detects in field blanks, list:

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results:

CCB2 2ppb below reg'l 'U' 2ppb for S4-DP-12-15-F

5. Interference Checks (check all that apply)	✓	

✓ICS A/B Recoveries Acceptable
__Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ICS %R >120%, results >IDL estimated (J)
__ICS %R 50-79%, results >IDL estimated (J)
__ICS %R 50-79%, results <IDL estimated (UJ)
__ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:

6. Laboratory Control Samples (check all that apply)	✓	

✓LCS %R 80-120
__LCS %R 50-79% or >120%, results >IDL estimated (J)
__LCS %R 50-79% and results <IDL estimated (UJ)
__LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Duplicate (check all that apply)		e

__Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results: Not in package - lab does not provide 'paper' deliv. - no action.

	Acceptable Yes	Acceptable No
8. Spike Recovery (check all that apply)	✓	e

✓ 54705

__Spike %R with 75-125%
__Spike %R 30-74%, >125%, results >IDL estimated (J)
__Spike %R 30-74% results <IDL estimated (UJ)
✓ Spike %R <30%, results <IDL rejected (UR) See below
__Field blank used for spike analysis

Comments/Qualified Results: Not in package for metals
Cr+6 did not recover, US results for SYOP-01-15.

	Acceptable Yes	Acceptable No
9. GFAA Performance		e

__Duplicate injection RSD <20%
__Duplicate injection RSD >20%, results >CRDL estimated (J)
__Analytical spike %R 85-115%
__Analytical spike %R 40-85%, results >IDL estimated (J)
__Anlaytical spike %R 10-40%, results <IDL estimated (UJ)
__Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial Dilution

11. Field Duplicates →

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: Not in this SDG

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: Data usable as qualified.

HH8606F recalc Vanadium 13 ug/L

.01287 mg/L x 50/50 x 1000 = 13

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0370

ARI Client: The Boeing Company
ARI Project ID: HU86

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-DP-01-15-F	05BR0370 - 1	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-09-15-F	05BR0370 - 2	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-10-18-F	05BR0370 - 3	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-11-17-F	05BR0370 - 4	3/14/05	3/15/05	05-0140	25.000	ng/L	U
SY-DP-12-15-F	05BR0370 - 5	3/14/05	3/15/05	05-0140	25.000	ng/L	U

SY 4.7.05

Monday, March 21, 2005

Elizabeth Madonick
Project Manager

SAMPLE RESULTS-CONVENTIONALS
HU86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/09/05

Project: P2DG-South Yard Area
Event: 17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Client ID: SY-DP-01-15
ARI ID: 05-4562 HU86A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/08/05 030805#1	SM3500Cr-D	mg/L	0.011	< 0.011 U UJ

RL Analytical reporting limit
U Undetected at reported detection limit

54.705

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-DP-01-15-F
SAMPLE

Lab Sample ID: HU86F
LIMS ID: 05-4567
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**36.1**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**13**	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**11**	

U-Analyte undetected at given RL
RL-Reporting Limit

S4705

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-09-15-F
SAMPLE

Lab Sample ID: HU86G
LIMS ID: 05-4568
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**20.8**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**6**	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**15**	

U-Analyte undetected at given RL
RL-Reporting Limit

54.705

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-DP-10-18-F
SAMPLE

Lab Sample ID: HU86H
LIMS ID: 05-4569
Matrix: Water
Data Release Authorized
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**9.4**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**15**	

U-Analyte undetected at given RL
RL-Reporting Limit

84.705

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-DP-11-17-F
SAMPLE

Lab Sample ID: HU86I
LIMS ID: 05-4570
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**85.0**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	**7440-47-3**	**Chromium**	5	**8**	
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**4.9**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**37**	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**45**	

U-Analyte undetected at given RL
RL-Reporting Limit

S4.7.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-DP-12-15-F
SAMPLE

Lab Sample ID: HU86J
LIMS ID: 05-4571
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/14/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/14/05	200.8	03/18/05	**7440-38-2**	**Arsenic**	0.2	**15.8**	
3010A	03/14/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/14/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/14/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/14/05	200.8	03/18/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/14/05	200.8	03/18/05	7439-92-1	Lead	1	1	U
200.8	03/14/05	200.8	03/18/05	**7440-02-0**	**Nickel**	0.5	**2.5**	
3010A	03/14/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/14/05	200.8	03/18/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/14/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/14/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**15**	
3010A	03/14/05	6010B	03/17/05	**7440-66-6**	**Zinc**	6	**21**	U

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.7.05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: P2D6 South Yard
LABORATORY: ARI	SDG: JH86
SAMPLES/MATRIX/ANALYSES: Water	
SY-DP-01-15 SY-DP-12-15	
SY-DP-09-15	
SY-DP-10-18, DL	
SY-DP-11-17	

DATA ASSESSMENT SUMMARY

Review Item	VOA	SVOA 8270	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD /LCS/LCSD	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: Cooler 10°C -

Validated by: [signature] Date: 4.6.05

Reviewed by: [signature] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

Acceptable Yes / No

1. Data Completeness (check if present) . . . . . ✓ ___

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
___ Standards Preparation Data

Comments/Action Taken:

2. Holding Times (check all that apply) . . . . . ✓ ___

___ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results:

3. GC/MS Tuning . . . . . ✓ ___

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
___ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Instrument Performance	✓	

✓ DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [if no, R detects]
✓ Standard Checks within Retention Time Window [if no, check against expanded windows and if outside, qualify R/UR]
__ DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓ DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results: _____

5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
__ RSD ≤10% for performance checks (if no, J detects)
✓ All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓ Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) [if no, J all detects]

R { SY-DP-11-17, SY-DP-01-15, -09-15, -10-18, DL

Comments/Qualified Results: VOA ICAL 3/15/05 <.05 acetone J SY-DP-12-15
VOA - CCAL 3/17/05 < .05 4methyl 2p. SY-DP-01-15 (R), -09-15, -10-18, -12-15
VOA CCAL 3/18/05 >25 ~~2600~~, 2hex -10-18 Dil (UJ), -11-17
VOA " " <.05 2-Clve, 4me2P R -10-18 Dil, -11-17

6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__ Methylene chloride __ Toluene
__ Acetone detected __ 2-Butanone
__ Phthalates detected (list or attach summary sheet) _____
__ TICs detected (list or attach summary sheet) _____
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__ Other TCL compounds detected (list or attach summary sheet) _____
Qualify sample results <5x above as U at SQL

Comments/Qualified Results: _____

SVOA - ICAL 3/2/05 >30 4 6 Dinitro 2 Methylphenol UJ SY-DP-01-15, -09-15
SVOA - CCAL 3/16/05 >25 benzalc, hexachl, 4 nitrop UJ " "
SIM CCAL 3/16/05 >25 dibenz(ah) anth UJ " "

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates.	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate	✓	

✓ MS/MSD analyzed
✓ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
✓ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: VOA 2 CWE not recovered, 2 CWE UJ for SY-DP-01-15 LCS/LCSD ok

SVOA LCS/LCSD ok.

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
__ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
__ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
11. Tentatively Identified Compounds (TIC)		

__TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
__TIC's identified properly
__TIC's present in blank and samples (qualify according to 5x rule)
__Common laboratory contaminants reported as TIC's (qualify the following as rejected ICO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes!)
__Qualify valid TICs as JN

Comments/Qualified Results:

NA

12. Result Verification	✓	

✓ All results supported in raw data
__Transcription errors identified (note constituent(s) and changes below)
__Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits	✓	

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance	✓	

__Baseline anomalies noted which effect quantitation (J/UJ)
__High background MS levels noted which affect quantitation (J/UJ)
__Extraneous or coeluting peaks affecting quantitation (J/UJ)
__Poor resolution (J/UJ)
__Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results: Water - no recalc. ; 4.605

VC H086A

$\frac{17358 \times 50 \times 7}{82831 \times .78761}$ 123000 = .89 .9

no SVOA or PCB recalc - all results ND.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:41
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	46.5%
Tetrachlorometaxylene	71.0%

4.6.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 02:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.0%
Tetrachlorometaxylene	69.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-10-18
SAMPLE

Lab Sample ID: HU86C
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 03:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	77.2%
Tetrachlorometaxylene	62.2%

54.6.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:21
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U UJ
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	72.7%
d14-Dibenzo(a,h)anthracene	81.7%

FORM I

G.4.6.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4561
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 16:47
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U UJ
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	80.7%
d14-Dibenzo(a,h)anthracene	99.0%

FORM I

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized: MW
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 17:43
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

94605

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-01-15
SAMPLE

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Date Analyzed: 03/16/05 17:43

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.8%	2-Fluorobiphenyl	76.4%
d14-p-Terphenyl	86.0%	d4-1,2-Dichlorobenzene	68.8%
d5-Phenol	73.1%	2-Fluorophenol	72.8%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	77.1%

5/6.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Data Release Authorized:
Reported: 03/17/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/14/05
Date Analyzed: 03/16/05 18:16
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

5.4.6.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-DP-09-15
SAMPLE

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Date Analyzed: 03/16/05 18:16

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in $\mu g/L$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.4%	2-Fluorobiphenyl	79.6%
d14-p-Terphenyl	94.4%	d4-1,2-Dichlorobenzene	72.4%
d5-Phenol	79.2%	2-Fluorophenol	75.7%
2,4,6-Tribromophenol	92.8%	d4-2-Chlorophenol	82.7%

SU.6.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-01-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU86A
LIMS ID: 05-4562
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 13:42

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**0.9**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.4**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	110%
Bromofluorobenzene	98.0%
d4-1,2-Dichlorobenzene	109%

SU.605

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-09-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU86B
LIMS ID: 05-4563
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 18:33

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U R ✓
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R ✓
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	105%
Bromofluorobenzene	97.2%
d4-1,2-Dichlorobenzene	106%

JU.605

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-10-18**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU86C
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 19:01

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**0.6**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**0.4**
75-34-3	**1,1-Dichloroethane**	**0.2**	**13**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**3.3**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**50 ES**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**15**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.5%
d8-Toluene	103%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	100%

4.6.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-10-18**
Page 1 of 1 **DILUTION**

Lab Sample ID: HU86C
LIMS ID: 05-4564
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 13:42

Sample Amount: 2.00 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	2.0	< 2.0 U
74-83-9	Bromomethane	2.0	< 2.0 U
75-01-4	Vinyl Chloride	2.0	< 2.0 U
75-00-3	Chloroethane	2.0	< 2.0 U
75-09-2	Methylene Chloride	3.0	< 3.0 U
67-64-1	Acetone	10	< 10 U R
75-15-0	Carbon Disulfide	2.0	< 2.0 U
75-35-4	1,1-Dichloroethene	2.0	< 2.0 U
75-34-3	**1,1-Dichloroethane**	**2.0**	**15**
156-60-5	**trans-1,2-Dichloroethene**	**2.0**	**6.8**
156-59-2	**cis-1,2-Dichloroethene**	**2.0**	**83**
67-66-3	Chloroform	2.0	< 2.0 U
107-06-2	1,2-Dichloroethane	2.0	< 2.0 U
78-93-3	2-Butanone	10	< 10 U
71-55-6	1,1,1-Trichloroethane	2.0	< 2.0 U
56-23-5	Carbon Tetrachloride	2.0	< 2.0 U
108-05-4	Vinyl Acetate	2.0	< 2.0 U
75-27-4	Bromodichloromethane	2.0	< 2.0 U
78-87-5	1,2-Dichloropropane	2.0	< 2.0 U
10061-01-5	cis-1,3-Dichloropropene	2.0	< 2.0 U
79-01-6	**Trichloroethene**	**2.0**	**20**
124-48-1	Dibromochloromethane	2.0	< 2.0 U
79-00-5	1,1,2-Trichloroethane	2.0	< 2.0 U
71-43-2	Benzene	2.0	< 2.0 U
10061-02-6	trans-1,3-Dichloropropene	2.0	< 2.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U ~~UJ~~ R
75-25-2	Bromoform	2.0	< 2.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10	< 10 ~~U~~ R
591-78-6	2-Hexanone	10	< 10 U UJ
127-18-4	Tetrachloroethene	2.0	< 2.0 U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	< 2.0 U
108-88-3	Toluene	2.0	< 2.0 U
108-90-7	Chlorobenzene	2.0	< 2.0 U
100-41-4	Ethylbenzene	2.0	< 2.0 U
100-42-5	Styrene	2.0	< 2.0 U
75-69-4	Trichlorofluoromethane	2.0	< 2.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	4.0	< 4.0 U
95-47-6	o-Xylene	2.0	< 2.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	105%
Bromofluorobenzene	89.6%
d4-1,2-Dichlorobenzene	101%

SH.6.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-11-17**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU86D
LIMS ID: 05-4565
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 14:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**0.8**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**1.9**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.1**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.3**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	107%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	109%

9.4.6.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-DP-12-15**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU86E
LIMS ID: 05-4566
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HU86-The Boeing Company
Project: P2DG-South Yard Area
17305
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/17/05 19:55

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**2.5**
75-00-3	**Chloroethane**	**0.2**	**0.5**
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.2** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**1.2**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.6**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	107%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	107%

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FORM I

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INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: P2D6 South Yard
LABORATORY: AIG	SDG: HU97
SAMPLES/MATRIX/ANALYSES: Soil	

DP-SY-1-1	DP-SY-9-5	DP-SY-10-10	DP-SY-12-1
1-5	9-10	11-1	12-5
1-10	10-1	11-5	12-10
9-1	10-5	11-10	

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	HG	CYANIDE	OTHER Cr+6
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS	O		O		SRM O
7. Duplicate RPD	O		O		O
8. Spike Recovery	O		O		—
9. MSA	—		—		—
10. Other QC	O		—		—
11. Field Duplicates	—		—		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: NO FD'S

Validated by: [signature] Date: 4.4.05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other _____

Comments/Qualified Results: _____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
__ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results: _____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results: _____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

__Detects reported in ICB/CCB, list: Cu -2.4 ICB no qual

__Detects in preparation blanks, list:

__Detects in field blanks, list:

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results:

	Acceptable Yes	No
5. Interference Checks (check all that apply)	✓	

✓ICS A/B Recoveries Acceptable
__Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ICS %R >120%, results >IDL estimated (J)
__ICS %R 50-79%, results >IDL estimated (J)
__ICS %R 50-79%, results <IDL estimated (UJ)
__ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:

	Acceptable Yes	No
6. Laboratory Control Samples (check all that apply)	✓	

✓LCS %R 80-120
__LCS %R 50-79% or >120%, results >IDL estimated (J)
__LCS %R 50-79% and results <IDL estimated (UJ)
__LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Duplicate (check all that apply)	✓	

__Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
✓ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
8. Spike Recovery (check all that apply)	✓	

LCS ok.

__Spike %R with 75-125%
✓ Spike %R 30-74%, >125%, results >IDL estimated (J)
__Spike %R 30-74% results <IDL estimated (UJ)
__Spike %R <30%, results <IDL rejected (UR)
__Field blank used for spike analysis

Comments/Qualified Results: Sb ↓ (30%) UJ DP-84-1-1, 1-5, 1-10, 9-1, 9-5, 9-10, 10-1, 10-5, 10-10, 11-1, 11-5, 11-10, 12-1, 12-5, 12-10

	Acceptable Yes	Acceptable No
9. GFAA Performance		

__Duplicate injection RSD <20%
__Duplicate injection RSD >20%, results >CRDL estimated (J)
__Analytical spike %R 85-115%
__Analytical spike %R 40-85%, results >IDL estimated (J)
__Anlaytical spike %R 10-40%, results <IDL estimated (UJ)
__Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial Dilution run; okay.

11. Field Duplicates		

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: None in pkg

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: Data usable as Qual'd

recalc HW97A V 36 wet/dry

$$\frac{.3441 \times 2 \times 50}{1.046 \times .934} = 35.2$$

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05 4614
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Percent Total Solids: 93.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/24/05	6010B	03/25/05	7429-90-5	Aluminum	5	9,080	
3050B	03/24/05	6010B	03/25/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/24/05	6010B	03/25/05	7440-38-2	Arsenic	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-41-7	Beryllium	0.1	0.1	
3050B	03/24/05	6010B	03/25/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/24/05	6010B	03/25/05	7440-47-3	Chromium	0.5	14.5	
3050B	03/24/05	6010B	03/25/05	7440-50-8	Copper	0.2	12.2	
3050B	03/24/05	6010B	03/25/05	7439-92-1	Lead	2	5	
3050B	03/24/05	6010B	03/25/05	7439-95-4	Magnesium	5	3,140	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/24/05	6010B	03/25/05	7440-02-0	Nickel	1	14	
3050B	03/24/05	6010B	03/25/05	7782-49-2	Selenium	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/24/05	6010B	03/25/05	7440-28-0	Thallium	5	5	U
3050B	03/24/05	6010B	03/25/05	7440-62-2	Vanadium	0.3	36.0	
3050B	03/24/05	6010B	03/25/05	7440-66-6	Zinc	0.6	33.5	

U-Analyte undetected at given RL
RL-Reporting Limit

5-4-11-05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Percent Total Solids: 72.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	7	**19,400**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	7	7	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	7	7	U
3050B	03/18/05	6010B	03/22/05	**7440-41-7**	**Beryllium**	0.1	**0.3**	
3050B	03/18/05	6010B	03/22/05	**7440-43-9**	**Cadmium**	0.3	**0.3**	
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.7	**19.0**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.3	**30.0**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	3	**15**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	7	**5,040**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.07	0.07	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**16**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	7	7	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	7	7	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.4	**55.9**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.8	**53.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

5/4/1/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 76.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	6	16,700	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	**7440-41-7**	**Beryllium**	0.1	0.2	
3050B	03/18/05	6010B	03/22/05	**7440-43-9**	**Cadmium**	0.2	0.3	
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.6	17.0	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	24.4	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	10	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	6	4,230	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	13	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.4	49.7	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.7	42.9	

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.11.05
000105

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 87.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	8,840	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	10.1	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	12.2	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	1,970	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	6	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.3	40.2	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	17.8	

U-Analyte undetected at given RL
RL-Reporting Limit

5/4/11-05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 83.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	6	**10,400**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.6	**11.4**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**13.7**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	6	**2,290**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.4	**38.9**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.7	**24.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

gj 4.11.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 82.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	6	**8,400**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.6	**10.5**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**13.1**	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	6	**1,920**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**7**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**43.5**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.7	**19.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.11.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-10-1
SAMPLE

Lab Sample ID: HU97G
LIMS ID: 05-4620
Matrix: Soil
Data Release Authorized
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 94.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	5	**9,950**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.5	**13.4**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**13.1**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	**4**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	5	**3,130**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**12**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**41.1**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.6	**30.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

GU.11.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-10-5
SAMPLE

Lab Sample ID: HU97H
LIMS ID: 05-4621
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 90.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	5	**8,560**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.5	**10.9**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**11.6**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	**2**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	5	**2,170**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**7**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**37.5**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.6	**20.1**	

U-Analyte undetected at given RL
RL-Reporting Limit

G4.11.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-10-10
SAMPLE

Lab Sample ID: HU97I
LIMS ID: 05-4622
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 80.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	6	**11,900**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	U
3050B	03/18/05	6010B	03/22/05	**7440-41-7**	**Beryllium**	0.1	**0.2**	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.6	**17.1**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**22.0**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	6	**3,500**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.06	0.06	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**11**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.4	**52.5**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.7	**31.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.11.05
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ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-11-1
SAMPLE

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 97.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	5	**7,630**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.5	**13.5**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**9.0**	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	5	**2,410**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**38.7**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.6	**21.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

4/11/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-11-5
SAMPLE

Lab Sample ID: HU97K
LIMS ID: 05-4624
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 97.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	5	**8,110**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-41-7**	**Beryllium**	0.1	**0.1**	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.5	**11.7**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**9.4**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	5	**2,630**	
CLP	03/18/05	7471A	03/23/05	**7439-97-6**	**Mercury**	0.04	**0.05**	
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**37.1**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.6	**21.9**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.11.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-11-10
SAMPLE

Lab Sample ID: HU97L
LIMS ID: 05-4625
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 78.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	7429-90-5	Aluminum	6	11,400	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	6	6	
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.2	
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	0.6	13.7	
3050B	03/18/05	6010B	03/22/05	7440-50-8	Copper	0.2	23.8	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	4	
3050B	03/18/05	6010B	03/22/05	7439-95-4	Magnesium	6	3,610	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	7440-02-0	Nickel	1	11	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.4	0.4	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	6	6	U
3050B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	0.4	50.5	
3050B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	0.7	32.4	

U-Analyte undetected at given RL
RL-Reporting Limit

5/11/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-12-1
SAMPLE

Lab Sample ID: HU97M
LIMS ID: 05-4626
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 96.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	5	**7,790**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.5	**12.2**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**11.7**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	**3**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	5	**2,650**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**9**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**38.5**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.6	**25.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

SY.11.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: DP-SY-12-5
SAMPLE

Lab Sample ID: HU97N
LIMS ID: 05-4627
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 96.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	5	**8,320**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.5	**14.3**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**9.9**	
3050B	03/18/05	6010B	03/22/05	**7439-92-1**	**Lead**	2	**2**	
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	5	**2,750**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.05	0.05	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**10**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**41.8**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.6	**22.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

000116

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: DP-SY-12-10
SAMPLE

Lab Sample ID: HU970
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 03/28/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Percent Total Solids: 94.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/18/05	6010B	03/22/05	**7429-90-5**	**Aluminum**	5	**8,650**	
3050B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	5	5	U UJ
3050B	03/18/05	6010B	03/22/05	7440-38-2	Arsenic	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	0.1	0.1	U
3050B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	0.5	**12.9**	
3050B	03/18/05	6010B	03/22/05	**7440-50-8**	**Copper**	0.2	**9.9**	
3050B	03/18/05	6010B	03/22/05	7439-92-1	Lead	2	2	U
3050B	03/18/05	6010B	03/22/05	**7439-95-4**	**Magnesium**	5	**2,380**	
CLP	03/18/05	7471A	03/23/05	7439-97-6	Mercury	0.04	0.04	U
3050B	03/18/05	6010B	03/22/05	**7440-02-0**	**Nickel**	1	**8**	
3050B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	5	5	U
3050B	03/18/05	6010B	03/22/05	7440-22-4	Silver	0.3	0.3	U
3050B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	5	5	U
3050B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	0.3	**38.0**	
3050B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	0.6	**21.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.11.05

FORM-I

SAMPLE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: arp
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Client ID: DP-SY-1-1
ARI ID: 05-4614 HU97A

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.118	< 0.118 U
Total Solids	03/14/05 031405#1	EPA 160.3	Percent	0.01	92.50

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

G 4.11.05

SAMPLE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: arl
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Client ID: DP-SY-1-5
ARI ID: 05-4615 HU97B

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.147	< 0.147 U
Total Solids	03/14/05 031405#1	EPA 160.3	Percent	0.01	72.30

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

5 4.11.05

SAMPLE RESULTS-CONVENTIONALS
HU97-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized: ark
Reported: 03/17/05

Project: P2DG-South Yard Area
Event: 013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Client ID: DP-SY-1-10
ARI ID: 05-4616 HU97C

Analyte	Date	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/kg	0.132	< 0.132 U
Total Solids	03/14/05 031405#1	EPA 160.3	Percent	0.01	78.00

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

S 4.11.05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.: 013-1646.002.200	SITE: P206 South Yard
LABORATORY: ARI	SDG: 41497
SAMPLES/MATRIX/ANALYSES: Soil Trip Blank	

DP-SY-1-1	DP-SY-9-5	DP-SY-10-10	SY-DP-12-1
1-5	9-10	11-1	12-5
1-10	10-1	11-5	12-10
9-1	10-5	11-10	

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA (8270) SIMS	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: Samples rec'd @ 8°C - no action. TB not listed on COC.

Validated by: Christian Jen Date: 4.11.05

Reviewed by: [illegible] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
__ Standards Preparation Date

Comments/Action Taken: _____

2. Holding Times (check all that apply)	✓	

__ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection 3/11
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: _____

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
__ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) (if no, R detects)
__Standard Checks within Retention Time Window (if no, check against expanded windows and if outside, qualify R/UR)
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
__DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓ RSD ≤10% for performance checks (if no, J detects)
✓ All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓ Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

Comments/Qualified Results:
VOA - CCAL 3/17/05 >25 trichlfluor, UJ: OP-54-1-1, -1-5, -1-10, 9-1, -9-5
VOA - CCAL 3/18/05 >25 " " UJ: -9-10, 10-1, 10-5, 10-10, 11-1
SVOA - ICAL 3/2/05 >30 4,6din-2mep all spls UJ
SVOA - CCAL 3/2/05 >25 benzalch, hexachlp -1-1, -1-5, 1-10, 9-1, 9-5, 9-10
SVOA - CCAL 3/22/05 >25 " benz acid, hexachlp., 24DNP ✓ 4nitrop. - none -

	Acceptable Yes	Acceptable No
6. Blanks		

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet)
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet)
Qualify sample results <5x above as U at SQL

Comments/Qualified Results:

SVOA 3/23/05 >25 hexachlcp., 24DNP, ~~none~~ - none -

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate	✓	

✓ MS/MSD analyzed
✓ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: DP-54-1-1 ok MS/MSD, LCS/LCSD/MM for VOA, SVOA ok.
LCS/LCSD RPD >40% for SVOA, %RS okay; no action

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexane derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
___Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification . . . . . ✓ ___

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits . . . . . ✓ ___

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
✓ Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results: Since - lab notes benzo(b)fluoranthene and benzo(k)fluoranthene (M) qual for low spectral match for DP-84-1-1, qualified J.

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

HU97C VOA acetone 56 22 mo3t 3.92 dry wt.

$$\frac{9681 \times 50}{63537 \times 1775 \times .17259} = 57 \text{ (rounding)}$$

Sim 8270 pyrene 13 HU97A .942

$$\frac{24336 \times 2 \times 500}{157595 \times .942 \times 1531 \times 7.50g} = 14 \text{ (rounding)}$$

Aroclor # U97A .1168 .942% 130 µg/kg
sulfur clean 5.67g 4 ml
acid clean .183

$$\frac{.1168 \times 4 \times 1000}{5.67} = 129 \text{ µg/kg}$$

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized: MW
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 18:59
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 5.8 %
pH: 7.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	**Pyrene**	**6.6**	**13**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	**Chrysene**	**6.6**	**7.3**
205-99-2	**Benzo(b)fluoranthene**	**6.6**	**9.9 M** J
207-08-9	**Benzo(k)fluoranthene**	**6.6**	**8.6 M** J
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	66.3%
d14-Dibenzo(a,h)anthracene	39.7%

5/11/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized: TMW
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 18:56
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.69 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 26.8 %
pH: 7.2

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	**Phenanthrene**	**6.5**	**7.8**
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	**Fluoranthene**	**6.5**	**10**
129-00-0	**Pyrene**	**6.5**	**13**
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	**Chrysene**	**6.5**	**7.8**
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	**Benzo(k)fluoranthene**	**6.5**	**8.4**
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	36.0%
d14-Dibenzo(a,h)anthracene	47.3%

4.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 19:21
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.61 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 27.6 %
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**12**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	**Fluoranthene**	**6.6**	**12**
129-00-0	**Pyrene**	**6.6**	**9.9**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	**Chrysene**	**6.6**	**10**
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracene	52.7%

9.4.1105

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2UG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 19:34
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.60 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 15.6 %
pH: 6.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	**Phenanthrene**	**6.6**	**9.9**
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	**Pyrene**	**6.6**	**6.6**
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.3%
d14-Dibenzo(a,h)anthracene	47.7%

4-11-05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 19:59
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 16.0 %
pH: 3.9

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.6	< 6.6 U
91-57-6	2-Methylnaphthalene	6.6	< 6.6 U
208-96-8	Acenaphthylene	6.6	< 6.6 U
83-32-9	Acenaphthene	6.6	< 6.6 U
86-73-7	Fluorene	6.6	< 6.6 U
85-01-8	Phenanthrene	6.6	< 6.6 U
120-12-7	Anthracene	6.6	< 6.6 U
206-44-0	Fluoranthene	6.6	< 6.6 U
129-00-0	Pyrene	6.6	< 6.6 U
56-55-3	Benzo(a)anthracene	6.6	< 6.6 U
218-01-9	Chrysene	6.6	< 6.6 U
205-99-2	Benzo(b)fluoranthene	6.6	< 6.6 U
207-08-9	Benzo(k)fluoranthene	6.6	< 6.6 U
50-32-8	Benzo(a)pyrene	6.6	< 6.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	< 6.6 U
53-70-3	Dibenz(a,h)anthracene	6.6	< 6.6 U
191-24-2	Benzo(g,h,i)perylene	6.6	< 6.6 U
132-64-9	Dibenzofuran	6.6	< 6.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	51.7%
d14-Dibenzo(a,h)anthracene	44.0%

3.24.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/23/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 20:24
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.68 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 19.2 %
pH: 5.8

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	6.5	< 6.5 U
91-57-6	2-Methylnaphthalene	6.5	< 6.5 U
208-96-8	Acenaphthylene	6.5	< 6.5 U
83-32-9	Acenaphthene	6.5	< 6.5 U
86-73-7	Fluorene	6.5	< 6.5 U
85-01-8	Phenanthrene	6.5	< 6.5 U
120-12-7	Anthracene	6.5	< 6.5 U
206-44-0	Fluoranthene	6.5	< 6.5 U
129-00-0	Pyrene	6.5	< 6.5 U
56-55-3	Benzo(a)anthracene	6.5	< 6.5 U
218-01-9	Chrysene	6.5	< 6.5 U
205-99-2	Benzo(b)fluoranthene	6.5	< 6.5 U
207-08-9	Benzo(k)fluoranthene	6.5	< 6.5 U
50-32-8	Benzo(a)pyrene	6.5	< 6.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.5	< 6.5 U
53-70-3	Dibenz(a,h)anthracene	6.5	< 6.5 U
191-24-2	Benzo(g,h,i)perylene	6.5	< 6.5 U
132-64-9	Dibenzofuran	6.5	< 6.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	40.3%
d14-Dibenzo(a,h)anthracene	41.0%

3.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 20:16
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 5.8%
pH: 7.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U UJ
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

GJ 4.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Date Analyzed: 03/21/05 20:16

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U UJ ✓
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	72.8%	d4-1,2-Dichlorobenzene	63.6%
d5-Phenol	65.3%	2-Fluorophenol	52.0%
2,4,6-Tribromophenol	74.9%	d4-2-Chlorophenol	68.5%

5.4.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 21:54
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.69 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 26.8%
pH: 7.2

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U UJ
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U UJ
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U

9.4.1.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Date Analyzed: 03/21/05 21:54

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U UJ ✓
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	39.5%	2-Fluorobiphenyl	44.8%
d14-p-Terphenyl	46.0%	d4-1,2-Dichlorobenzene	39.3%
d5-Phenol	33.9%	2-Fluorophenol	35.5%
2,4,6-Tribromophenol	41.9%	d4-2-Chlorophenol	41.3%

4.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 22:27
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.61 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.6%
pH: 7.1

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U UJ
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Date Analyzed: 03/21/05 22:27

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U UJ
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.2%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	50.9%	2-Fluorophenol	55.2%
2,4,6-Tribromophenol	70.9%	d4-2-Chlorophenol	64.8%

Guillot

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 23:00
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.60 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.6%
pH: 6.1

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U UJ
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

5.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Date Analyzed: 03/21/05 23:00

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 UJ
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.0%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	64.8%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	52.3%	2-Fluorophenol	51.7%
2,4,6-Tribromophenol	60.0%	d4-2-Chlorophenol	57.1%

GM 11.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/21/05 23:33
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.0%
pH: 3.9

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Date Analyzed: 03/21/05 23:33

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U UJ
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.4%	2-Fluorobiphenyl	55.6%
d14-p-Terphenyl	57.2%	d4-1,2-Dichlorobenzene	49.2%
d5-Phenol	42.1%	2-Fluorophenol	43.2%
2,4,6-Tribromophenol	49.6%	d4-2-Chlorophenol	48.0%

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/24/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/22/05 00:05
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.68 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 19.2%
pH: 5.8

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 UUJ
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U UJ
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U

5.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Date Analyzed: 03/22/05 00:05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200

CAS Number	Analyte	RL	Result
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U UJ
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	44.0%	2-Fluorobiphenyl	48.8%
d14-p-Terphenyl	55.6%	d4-1,2-Dichlorobenzene	40.4%
d5-Phenol	35.2%	2-Fluorophenol	37.6%
2,4,6-Tribromophenol	49.3%	d4-2-Chlorophenol	43.2%

5.4.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 19:22

Sample Amount: 4.85 g-dry-wt
Percent Moisture: 7.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.2	< 5.2 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U UJ✓
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	134%
d8-Toluene	112%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	103%

5.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 20:44

Sample Amount: 4.00 g-dry-wt
Percent Moisture: 25.3%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.5	< 2.5 U
67-64-1	**Acetone**	**6.2**	**150**
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	**2-Butanone**	**6.2**	**37**
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.2	< 6.2 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	Trichloroethene	1.2	< 1.2 U
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.2	< 6.2 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.2	< 6.2 U
591-78-6	2-Hexanone	6.2	< 6.2 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	107%
Bromofluorobenzene	99.1%
d4-1,2-Dichlorobenzene	101%

5.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-1-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 21:12

Sample Amount: 3.92 g-dry-wt
Percent Moisture: 22.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.6	< 2.6 U
67-64-1	**Acetone**	**6.4**	**56**
75-15-0	Carbon Disulfide	1.3	< 1.3 U
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	**2-Butanone**	**6.4**	**11**
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.4	< 6.4 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	Trichloroethene	1.3	< 1.3 U
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.4	< 6.4 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.4	< 6.4 U
591-78-6	2-Hexanone	6.4	< 6.4 U
127-18-4	Tetrachloroethene	1.3	< 1.3 U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U UJ ✓
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.6	< 2.6 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	115%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	104%

SJ 4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINNS/JA
Date Analyzed: 03/17/05 21:39

Sample Amount: 5.00 g-dry-wt
Percent Moisture: 4.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	**Acetone**	**5.0**	**6.2**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	134%
d8-Toluene	118%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	102%

4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-9-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/17/05 22:07

Sample Amount: 3.94 g-dry-wt
Percent Moisture: 22.7%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.3	< 1.3 U
74-83-9	Bromomethane	1.3	< 1.3 U
75-01-4	Vinyl Chloride	1.3	< 1.3 U
75-00-3	Chloroethane	1.3	< 1.3 U
75-09-2	Methylene Chloride	2.5	< 2.5 U
67-64-1	Acetone	6.3	< 6.3 U
75-15-0	Carbon Disulfide	1.3	< 1.3 U
75-35-4	1,1-Dichloroethene	1.3	< 1.3 U
75-34-3	1,1-Dichloroethane	1.3	< 1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3 U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3 U
67-66-3	Chloroform	1.3	< 1.3 U
107-06-2	1,2-Dichloroethane	1.3	< 1.3 U
78-93-3	2-Butanone	6.3	< 6.3 U
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3 U
56-23-5	Carbon Tetrachloride	1.3	< 1.3 U
108-05-4	Vinyl Acetate	6.3	< 6.3 U
75-27-4	Bromodichloromethane	1.3	< 1.3 U
78-87-5	1,2-Dichloropropane	1.3	< 1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3 U
79-01-6	Trichloroethene	1.3	< 1.3 U
124-48-1	Dibromochloromethane	1.3	< 1.3 U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3 U
71-43-2	Benzene	1.3	< 1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3 U
110-75-8	2-Chloroethylvinylether	6.3	< 6.3 U
75-25-2	Bromoform	1.3	< 1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.3	< 6.3 U
591-78-6	2-Hexanone	6.3	< 6.3 U
127-18-4	Tetrachloroethene	1.3	< 1.3 U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3 U
108-88-3	Toluene	1.3	< 1.3 U
108-90-7	Chlorobenzene	1.3	< 1.3 U
100-41-4	Ethylbenzene	1.3	< 1.3 U
100-42-5	Styrene	1.3	< 1.3 U
75-69-4	Trichlorofluoromethane	1.3	< 1.3 U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U
1330-20-7	m,p-Xylene	1.3	< 1.3 U
95-47-6	o-Xylene	1.3	< 1.3 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	112%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	103%

5.4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 20:07

Sample Amount: 4.22 g-dry-wt
Percent Moisture: 21.1%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.4	< 2.4 U
67-64-1	**Acetone**	**5.9**	**120**
75-15-0	**Carbon Disulfide**	**1.2**	**5.7**
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	1,1-Dichloroethane	1.2	< 1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2 U
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	**2-Butanone**	**5.9**	**25**
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	5.9	< 5.9 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	Trichloroethene	1.2	< 1.2 U
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	5.9	< 5.9 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.9	< 5.9 U
591-78-6	2-Hexanone	5.9	< 5.9 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.4	< 2.4 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	106%
Bromofluorobenzene	95.9%
d4-1,2-Dichlorobenzene	101%

9.4.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-10-1
SAMPLE

Lab Sample ID: HU97G
LIMS ID: 05-4620
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 20:34

Sample Amount: 4.67 g-dry-wt
Percent Moisture: 8.4%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	Acetone	5.4	< 5.4 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**1.2**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	110%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	102%

3.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-10-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU97H
LIMS ID: 05-4621
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 21:02

Sample Amount: 4.62 g-dry-wt
Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	Acetone	5.4	< 5.4 U
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**3.5**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	**Tetrachloroethene**	**1.1**	**2.0**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	110%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	101%

5.4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-10-10
SAMPLE

Lab Sample ID: HU97I
LIMS ID: 05-4622
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 21:30

Sample Amount: 4.82 g-dry-wt
Percent Moisture: 6.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	**Acetone**	**5.2**	**7.5**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	132%
d8-Toluene	109%
Bromofluorobenzene	105%
d4-1,2-Dichlorobenzene	102%

4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-11-1**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 21:57

Sample Amount: 4.61 g-dry-wt
Percent Moisture: 12.9%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	**Acetone**	**5.4**	**6.4**
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.4	< 5.4 U
71-55-6	**1,1,1-Trichloroethane**	**1.1**	**1.2**
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.4	< 5.4 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**4.0**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.4	< 5.4 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4	< 5.4 U
591-78-6	2-Hexanone	5.4	< 5.4 U
127-18-4	**Tetrachloroethene**	**1.1**	**3.1**
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	133%
d8-Toluene	112%
Bromofluorobenzene	105%
d4-1,2-Dichlorobenzene	100%

4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-11-5
SAMPLE

Lab Sample ID: HU97K
LIMS ID: 05-4624
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 14:50

Sample Amount: 4.56 g-dry-wt
Percent Moisture: 15.0%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.1	< 1.1 U
74-83-9	Bromomethane	1.1	< 1.1 U
75-01-4	Vinyl Chloride	1.1	< 1.1 U
75-00-3	Chloroethane	1.1	< 1.1 U
75-09-2	Methylene Chloride	2.2	< 2.2 U
67-64-1	**Acetone**	**5.5**	**6.9**
75-15-0	Carbon Disulfide	1.1	< 1.1 U
75-35-4	1,1-Dichloroethene	1.1	< 1.1 U
75-34-3	1,1-Dichloroethane	1.1	< 1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1 U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1 U
67-66-3	Chloroform	1.1	< 1.1 U
107-06-2	1,2-Dichloroethane	1.1	< 1.1 U
78-93-3	2-Butanone	5.5	< 5.5 U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1 U
56-23-5	Carbon Tetrachloride	1.1	< 1.1 U
108-05-4	Vinyl Acetate	5.5	< 5.5 U
75-27-4	Bromodichloromethane	1.1	< 1.1 U
78-87-5	1,2-Dichloropropane	1.1	< 1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1 U
79-01-6	**Trichloroethene**	**1.1**	**1.4**
124-48-1	Dibromochloromethane	1.1	< 1.1 U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1 U
71-43-2	Benzene	1.1	< 1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1 U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5 U
75-25-2	Bromoform	1.1	< 1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5 U
591-78-6	2-Hexanone	5.5	< 5.5 U
127-18-4	Tetrachloroethene	1.1	< 1.1 U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1 U
108-88-3	Toluene	1.1	< 1.1 U
108-90-7	Chlorobenzene	1.1	< 1.1 U
100-41-4	Ethylbenzene	1.1	< 1.1 U
100-42-5	Styrene	1.1	< 1.1 U
75-69-4	Trichlorofluoromethane	1.1	< 1.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.2	< 2.2 U
1330-20-7	m,p-Xylene	1.1	< 1.1 U
95-47-6	o-Xylene	1.1	< 1.1 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	102%
Bromofluorobenzene	96.1%
d4-1,2-Dichlorobenzene	93.2%

Sulll.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: DP-SY-11-10
SAMPLE

Lab Sample ID: HU97L
LIMS ID: 05-4625
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 15:18

Sample Amount: 3.68 g-dry-wt
Percent Moisture: 29.1%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.4	< 1.4 U
74-83-9	Bromomethane	1.4	< 1.4 U
75-01-4	**Vinyl Chloride**	**1.4**	**2.2**
75-00-3	**Chloroethane**	**1.4**	**3.9**
75-09-2	Methylene Chloride	2.7	< 2.7 U
67-64-1	**Acetone**	**6.8**	**210**
75-15-0	Carbon Disulfide	1.4	< 1.4 U
75-35-4	1,1-Dichloroethene	1.4	< 1.4 U
75-34-3	**1,1-Dichloroethane**	**1.4**	**6.1**
156-60-5	trans-1,2-Dichloroethene	1.4	< 1.4 U
156-59-2	**cis-1,2-Dichloroethene**	**1.4**	**3.4**
67-66-3	Chloroform	1.4	< 1.4 U
107-06-2	1,2-Dichloroethane	1.4	< 1.4 U
78-93-3	**2-Butanone**	**6.8**	**54**
71-55-6	1,1,1-Trichloroethane	1.4	< 1.4 U
56-23-5	Carbon Tetrachloride	1.4	< 1.4 U
108-05-4	Vinyl Acetate	6.8	< 6.8 U
75-27-4	Bromodichloromethane	1.4	< 1.4 U
78-87-5	1,2-Dichloropropane	1.4	< 1.4 U
10061-01-5	cis-1,3-Dichloropropene	1.4	< 1.4 U
79-01-6	Trichloroethene	1.4	< 1.4 U
124-48-1	Dibromochloromethane	1.4	< 1.4 U
79-00-5	1,1,2-Trichloroethane	1.4	< 1.4 U
71-43-2	Benzene	1.4	< 1.4 U
10061-02-6	trans-1,3-Dichloropropene	1.4	< 1.4 U
110-75-8	2-Chloroethylvinylether	6.8	< 6.8 U
75-25-2	Bromoform	1.4	< 1.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.8	< 6.8 U
591-78-6	2-Hexanone	6.8	< 6.8 U
127-18-4	Tetrachloroethene	1.4	< 1.4 U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	< 1.4 U
108-88-3	**Toluene**	**1.4**	**2.2**
108-90-7	Chlorobenzene	1.4	< 1.4 U
100-41-4	Ethylbenzene	1.4	< 1.4 U
100-42-5	Styrene	1.4	< 1.4 U
75-69-4	Trichlorofluoromethane	1.4	< 1.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.7	< 2.7 U
1330-20-7	m,p-Xylene	1.4	< 1.4 U
95-47-6	o-Xylene	1.4	< 1.4 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	99.5%
Bromofluorobenzene	88.8%
d4-1,2-Dichlorobenzene	90.2%

3/11/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-12-1
SAMPLE

Lab Sample ID: HU97M
LIMS ID: 05-4626
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 15:45

Sample Amount: 5.04 g-dry-wt
Percent Moisture: 2.2%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	104%
Bromofluorobenzene	99.1%
d4-1,2-Dichlorobenzene	93.3%

5.4.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: DP-SY-12-5
SAMPLE

Lab Sample ID: HU97N
LIMS ID: 05-4627
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 16:13

Sample Amount: 4.85 g-dry-wt
Percent Moisture: 4.2%

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.1	< 2.1 U
67-64-1	**Acetone**	**5.2**	**5.6**
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.2	< 5.2 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.2	< 5.2 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2 U
591-78-6	2-Hexanone	5.2	< 5.2 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.1	< 2.1 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	104%
Bromofluorobenzene	97.8%
d4-1,2-Dichlorobenzene	94.5%

3/21/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: DP-SY-12-10**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HU970
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/20/05 16:40

Sample Amount: 4.01 g-dry-wt
Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
74 87-3	Chloromethane	1.2	< 1.2 U
74-83-9	Bromomethane	1.2	< 1.2 U
75-01-4	Vinyl Chloride	1.2	< 1.2 U
75-00-3	Chloroethane	1.2	< 1.2 U
75-09-2	Methylene Chloride	2.5	< 2.5 U
67-64-1	**Acetone**	**6.2**	**37**
75-15-0	Carbon Disulfide	1.2	< 1.2 U
75-35-4	1,1-Dichloroethene	1.2	< 1.2 U
75-34-3	**1,1-Dichloroethane**	**1.2**	**4.6**
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2 U
156-59-2	**cis-1,2-Dichloroethene**	**1.2**	**2.0**
67-66-3	Chloroform	1.2	< 1.2 U
107-06-2	1,2-Dichloroethane	1.2	< 1.2 U
78-93-3	**2-Butanone**	**6.2**	**7.3**
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2 U
56-23-5	Carbon Tetrachloride	1.2	< 1.2 U
108-05-4	Vinyl Acetate	6.2	< 6.2 U
75-27-4	Bromodichloromethane	1.2	< 1.2 U
78-87-5	1,2-Dichloropropane	1.2	< 1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2 U
79-01-6	**Trichloroethene**	**1.2**	**2.1**
124-48-1	Dibromochloromethane	1.2	< 1.2 U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2 U
71-43-2	Benzene	1.2	< 1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2 U
110-75-8	2-Chloroethylvinylether	6.2	< 6.2 U
75-25-2	Bromoform	1.2	< 1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.2	< 6.2 U
591-78-6	2-Hexanone	6.2	< 6.2 U
127-18-4	Tetrachloroethene	1.2	< 1.2 U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2 U
108-88-3	Toluene	1.2	< 1.2 U
108-90-7	Chlorobenzene	1.2	< 1.2 U
100-41-4	Ethylbenzene	1.2	< 1.2 U
100-42-5	Styrene	1.2	< 1.2 U
75-69-4	Trichlorofluoromethane	1.2	< 1.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.5	< 2.5 U
1330-20-7	m,p-Xylene	1.2	< 1.2 U
95-47-6	o-Xylene	1.2	< 1.2 U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	102%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	95.7%

3/11/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: HU97P
LIMS ID: 05-4629
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/01/05
Date Received: 03/08/05

Instrument/Analyst: FINN5/JA
Date Analyzed: 03/18/05 13:35

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	Vinyl Chloride	1.0	< 1.0 U
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 U
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	1,1-Dichloroethane	1.0	< 1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0 U
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	Trichloroethene	1.0	< 1.0 U
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	110%
Bromofluorobenzene	110%
d4-1,2-Dichlorobenzene	102%

3.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-1-1
SAMPLE

Lab Sample ID: HU97A
LIMS ID: 05-4614
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 23:11
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 5.67 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.8
Percent Moisture: 5.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	70	< 70 U
53469-21-9	Aroclor 1242	70	< 70 U
12672-29-6	Aroclor 1248	70	< 70 U
11097-69-1	**Aroclor 1254**	**70**	**130**
11096-82-5	Aroclor 1260	70	< 70 U
11104-28-2	Aroclor 1221	70	< 70 U
11141-16-5	Aroclor 1232	70	< 70 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	119%
Tetrachlorometaxylene	93.8%

GH 11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-1-5
SAMPLE

Lab Sample ID: HU97B
LIMS ID: 05-4615
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 23:28
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 26.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.8%
Tetrachlorometaxylene	67.2%

5.4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-1-10
SAMPLE

Lab Sample ID: HU97C
LIMS ID: 05-4616
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 23:45
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 27.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	79.8%

4.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-9-1
SAMPLE

Lab Sample ID: HU97D
LIMS ID: 05-4617
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:02
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.1
Percent Moisture: 15.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	74.8%

5.4.11.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-9-5
SAMPLE

Lab Sample ID: HU97E
LIMS ID: 05-4618
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:19
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 3.9
Percent Moisture: 16.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.2%
Tetrachlorometaxylene	74.2%

SJ 4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-9-10
SAMPLE

Lab Sample ID: HU97F
LIMS ID: 05-4619
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:36
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 5.8
Percent Moisture: 19.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	109%
Tetrachlorometaxylene	87.5%

4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-10-1
SAMPLE

Lab Sample ID: HU97G
LIMS ID: 05-4620
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 00:53
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.6
Percent Moisture: 5.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	93.8%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-10-5
SAMPLE

Lab Sample ID: HU97H
LIMS ID: 05-4621
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 01:10
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.2
Percent Moisture: 6.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	94.0%

5.4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-10-10
SAMPLE

Lab Sample ID: HU97I
LIMS ID: 05-4622
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 01:27
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	95.5%

4.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-1
SAMPLE

Lab Sample ID: HU97J
LIMS ID: 05-4623
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 01:44
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.5
Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in μg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	124%
Tetrachlorometaxylene	92.5%

5/11/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-5
SAMPLE

Lab Sample ID: HU97K
LIMS ID: 05-4624
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 02:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.8
Percent Moisture: 3.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	120%
Tetrachlorometaxylene	96.8%

9.11.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-11-10
SAMPLE

Lab Sample ID: HU97L
LIMS ID: 05-4625
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 02:52
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.0
Percent Moisture: 23.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	75.5%

Gill.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-12-1
SAMPLE

Lab Sample ID: HU97M
LIMS ID: 05-4626
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 03:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.0
Percent Moisture: 3.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	121%
Tetrachlorometaxylene	93.2%

Gillion

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-12-5
SAMPLE

Lab Sample ID: HU97N
LIMS ID: 05-4627
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 03:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 3.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	79.0%

5/11/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: DP-SY-12-10
SAMPLE

Lab Sample ID: HU970
LIMS ID: 05-4628
Matrix: Soil
Data Release Authorized:
Reported: 03/22/05

QC Report No: HU97-The Boeing Company
Project: P2DG-South Yard Area
013-1646-002.200
Date Sampled: 03/08/05
Date Received: 03/08/05

Date Extracted: 03/15/05
Date Analyzed: 03/18/05 03:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.2
Percent Moisture: 5.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	119%
Tetrachlorometaxylene	88.0%

4.11.05

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INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: Boeing PZ2G South Yard
LABORATORY: ARI	SDG: HV02
SAMPLES/MATRIX/ANALYSES: water - metals total/dissolved & Gen Chem	
SY-PL2-153C	SY-PL2-153C-F
SY-PL2-153B	SY-PL2-153B-F
SY-PL2-153A	SY-PL2-153A-F

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP (TLPEIGOWS)	AA	HG (Brooks)	CYANIDE	OTHER
1. Data completeness	O		O		
2. Holding Times	O		O		
3. Calibration	O		O		
4. Blanks	O		O		
5. ICS	O		—		
6. LCS	O		O		
7. Duplicate RPD	O		—		
8. Spike Recovery	O		O		
9. MSA	—		—		
10. Other QC	O		ORO		
11. Field Duplicates	—		—		
12. Result Verification	O		O		
13. Overall Assessment	O		O		

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

Validated by: Christin Jenn Date: 4.4.05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results: Lab notes S4-PL2-153C, S4-PL2-153C-F, S4-PL2-153B, S4-PL2-153B-F rec'd unpreserved. Lab preserved prior to Anl. prep.

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

✓ Detects reported in ICB/CCB, list: ok, ND

__ Detects in preparation blanks, list: _____

__ Detects in field blanks, list: _____

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results: _____

	Acceptable Yes	No
5. Interference Checks (check all that apply)	✓	

✓ ICS A/B Recoveries Acceptable
__ Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ ICS %R >120%, results >IDL estimated (J)
__ ICS %R 50-79%, results >IDL estimated (J)
__ ICS %R 50-79%, results <IDL estimated (UJ)
__ ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results: _____

	Acceptable Yes	No
6. Laboratory Control Samples (check all that apply)	✓	

✓ LCS %R 80-120
✓ LCS %R 50-79% or >120%, results >IDL estimated (J) See below
✓ LCS %R 50-79% and results <IDL estimated (UJ)
__ LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results: Sulfide LCS %R of 70% (low) UJ for SY-PL2-1534

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
7. Duplicate (check all that apply)	✓	

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results: metals -ok
gen chem -ok

8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
__ Spike %R 30-74%, >125%, results >IDL estimated (J)
__ Spike %R 30-74% results <IDL estimated (UJ)
__ Spike %R <30%, results <IDL rejected (UR)
__ Field blank used for spike analysis

Comments/Qualified Results: metals ok
Gen chem { sulfide %R 73 remove Bob.
Cr+6 %R 3%
Pair controlled vc %R - not in narr. not Cr+6 ~~sulfide~~ 4.4.05
for SY-PL2-153A

9. GFAA Performance		

__ Duplicate injection RSD <20%
__ Duplicate injection RSD >20%, results >CRDL estimated (J)
__ Analytical spike %R 85-115%
__ Analytical spike %R 40-85%, results >IDL estimated (J)
__ Analytical spike %R 10-40%, results <IDL estimated (UJ)
__ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial D-ok.

11. Field Duplicates		e

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: not in package

12. Result Verification	✓	

✓All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: Recalc f. raw data H V0203
Vanadium: .00491 mg/L V1000 4.9 µg/L. - ok.

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for Brooks Rand Report # 05BR0384

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0384

ARI Client: The Boeing Company
ARI Project ID: HV02

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-153C	05BR0384 - 4	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153B	05BR0384 - 5	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153A	05BR0384 - 6	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U

SJ 4.4.05

Wednesday, March 23, 2005

Elizabeth
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0384

ARI Client: The Boeing Company
ARI Project ID: HV02

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-153C-F	05BR0384 - 1	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153B-F	05BR0384 - 2	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U
SY-PL2-153A-F	05BR0384 - 3	3/14/2005	3/15/2005	05-0140	25.000	ng/L	U

5.4.05

Wednesday, March 23, 2005

Elizabeth Madonick
Project Manager

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153C
SAMPLE

Lab Sample ID: HV02D
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized
Reported: 03/23/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**15**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

94.105

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-153B
SAMPLE

Lab Sample ID: HV02E
LIMS ID: 05-4664
Matrix: Water
Data Release Authorized
Reported: 03/23/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**3**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**4**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.1.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**2.7**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	**7440-47-3**	**Chromium**	5	**22**	
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**4.2**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.7**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**32**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.1.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153C-F
SAMPLE

Lab Sample ID: HV02A
LIMS ID: 05-4660
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**16**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

SJ 4.1.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153B-F
SAMPLE

Lab Sample ID: HV02B
LIMS ID: 05-4661
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	1	**3**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	1	1	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**2**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**4**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

9.4.1.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-153A-F
SAMPLE

Lab Sample ID: HV02C
LIMS ID: 05-4662
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**2.4**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	**7440-47-3**	**Chromium**	5	**6**	
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**24**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

94.1.05

SAMPLE RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Client ID: SY-PL2-153A
ARI ID: 05-4665 HV02F

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/10/05	SM 2580	mv	0.1	82.0
N-Ammonia	03/11/05 031105#2	EPA 350.1M	mg-N/L	0.100	3.40
N-Nitrate	03/10/05	Calculated	mg-N/L	0.010	0.012
N-Nitrite	03/10/05 031005#2	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/10/05 031005#1	EPA 353.2	mg-N/L	0.010	0.012
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	4.0	45.3
Sulfide	03/11/05 031105#1	EPA 376.2	mg/L	0.05	< 0.05 U [illegible] 3/4/05
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	15.8

RL Analytical reporting limit
U Undetected at reported detection limit

3/4/05

SAMPLE RESULTS-CONVENTIONALS
HV02-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ART
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Client ID: SY-PL2-153A-F
ARI ID: 05-4662 HV02C

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/10/05 031005#1	SM3500Cr-D	mg/L	0.011	< 0.011 U US

RL Analytical reporting limit
U Undetected at reported detection limit

GJ 4.4.05

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ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.: 013646002.300	SITE: Boeing P2DG South Yard
LABORATORY: ARI	SDG: HV02
SAMPLES/MATRIX/ANALYSES: water sampled 3/9/05	
SY-PL2-153A	
SY-PL2-153C	
SY-PL2-153B	

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA & SIM	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	O	O	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: No TB with samples. no action

Validated by: Christian Jensen Date: 4.1.05

Reviewed by: [illegible] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
✓ Standards Preparation Data

Comments/Action Taken:

2. Holding Times (check all that apply)	✓	

✓ Unpreserved VOA samples analyzed in 7 days from collection See below VOA
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: pH >2 S4-PC2-1536 & C 1st run (2 days past) then in 9 days - all cmpds Q UJ/J

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) (if no, R detects)
__Standard Checks within Retention Time Window (if no, check against expanded windows and if outside, qualify R/UR)
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓Initial calibration performed
✓Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓Continuing calibration performed
✓Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓RSD ≤10% for performance checks (if no, J detects)
✓All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

Comments/Qualified Results: CCAL 3/15/05 Acetone <.05 - R for SY-PL2-153A, B, C
CCAL 3/18/05 725 2cyc, 4mezp, (2hex) 2hex UJ all 3 smpls.
RF<.05 2cyc, 4mezp & 'R' for these 3 smpls
SVOA CCAL >25% D 3/17/05 hexachlorocyclop UJ for SY-PL2-153A
4-nitrophenol

	Acceptable Yes	Acceptable No
6. Blanks	✓	

✓Method blanks analyzed ✓
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet)
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet)
Qualify sample results <5x above as U at SQL

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate	✓	

✓ MS/MSD analyzed
✓ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: 2 Clve not recovered, unspiked sample SY-PL2-153A UJ, LCS/LCSD recovered ok.

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
11. Tentatively Identified Compounds (TIC)		

__TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
__TIC's identified properly
__TIC's present in blank and samples (qualify according to 5x rule)
__Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
__Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification	✓	

✓ All results supported in raw data
__Transcription errors identified (note constituent(s) and changes below)
__Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits	✓	

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance	✓	

__Baseline anomalies noted which affect quantitation (J/UJ)
__High background MS levels noted which affect quantitation (J/UJ)
__Extraneous or coeluting peaks affecting quantitation (J/UJ)
__Poor resolution (J/UJ)
__Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

VOA - Water - ~~no recalc~~ e.g. VC 54PCZ-153H
23437 x 4 / 82407 x .865 = 1.3 1.25 reported okay

SVOA + Sim - no recalc - ND's
PCBs "

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 16:16
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	77.2%

94.1.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 16:22
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.3%
d14-Dibenzo(a,h)anthracene	41.3%

94/1/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized:
Reported: 03/18/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 12:26
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

8.4.105

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-153A
SAMPLE

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Date Analyzed: 03/17/05 12:26

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.8%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	70.7%	2-Fluorophenol	68.0%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	74.9%

5.4.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV02F
LIMS ID: 05-4665
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 14:39

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**1.2**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.2**
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U R
591-78-6	2-Hexanone	1.0	< 1.0 U UJ R
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	102%
Bromofluorobenzene	91.5%
d4-1,2-Dichlorobenzene	106%

54.1.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV02E
LIMS ID: 05-4664
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 15:31

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	UJ
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	Vinyl Chloride	0.2	< 0.2 U	
75-00-3	Chloroethane	0.2	< 0.2 U	
75-09-2	Methylene Chloride	0.3	< 0.3 U	
67-64-1	Acetone	1.0	< 1.0 U	R
75-15-0	Carbon Disulfide	0.2	< 0.2 U	UJ
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U	
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U	
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	Trichloroethene	0.2	< 0.2 U	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	Benzene	0.2	< 0.2 U	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U	R
75-25-2	Bromoform	0.2	< 0.2 U	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U	R
591-78-6	2-Hexanone	1.0	< 1.0 U	UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	
108-88-3	Toluene	0.2	< 0.2 U	
108-90-7	Chlorobenzene	0.2	< 0.2 U	
100-41-4	Ethylbenzene	0.2	< 0.2 U	
100-42-5	Styrene	0.2	< 0.2 U	
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	109%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	110%

4.1.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-153C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV02D
LIMS ID: 05-4663
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV02-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/09/05
Date Received: 03/09/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 15:07

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	UJ
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	Vinyl Chloride	0.2	< 0.2 U	
75-00-3	Chloroethane	0.2	< 0.2 U	
75-09-2	Methylene Chloride	0.3	< 0.3 U	
67-64-1	Acetone	1.0	< 1.0 U	R
75-15-0	**Carbon Disulfide**	**0.2**	**0.6**	J
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	UJ
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U	
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U	
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	Trichloroethene	0.2	< 0.2 U	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	Benzene	0.2	< 0.2 U	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U	R
75-25-2	Bromoform	0.2	< 0.2 U	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U	R
591-78-6	2-Hexanone	1.0	< 1.0 U	UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	
108-88-3	Toluene	0.2	< 0.2 U	
108-90-7	Chlorobenzene	0.2	< 0.2 U	
100-41-4	Ethylbenzene	0.2	< 0.2 U	
100-42-5	Styrene	0.2	< 0.2 U	
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	103%
Bromofluorobenzene	98.8%
d4-1,2-Dichlorobenzene	110%

9.1.05

FORM I

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INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: Boeing P2DG South Yard
LABORATORY: ARI	SDG: HV22

SAMPLES/MATRIX/ANALYSES: water total, diss metals, gen chem.

SY-PL2-154B	SY-PL2-154B-F
SY-PL2-154C	SY-PL2-154C-F
SY-PL2-120A	SY-PL2-120A-F
SY-PL2-154A	SY-PL2-154A-F

Collected 3/10/05

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP 6010/200.8	AA	HG 1613 Low level	CYANIDE	OTHER gen. chem.
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS	O		OPR/LCS		—
7. Duplicate RPD	O		—		O
8. Spike Recovery	O		O		O
9. MSA	—		—		—
10. Other QC	O		—		—
11. Field Duplicates	—		~~O~~ 3/4/05		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

Brooks Rand notes difference in total vs diss SY-PL2-154A-F ND and 60.4 mg/L.

Validated by: Christopher Jenn Date: 4.4.05

Reviewed by: [illegible] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other _____

Comments/Qualified Results: _____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results: pH >2 SY-PL2-154C-F, SY-PL2-154C lab adjusted pH.

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results: Sulfide bracketed by low recovery CCAL, UJ for SY-PL2-120A

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

__Detects reported in ICB/CCB, list:

__Detects in preparation blanks, list:

__Detects in field blanks, list:

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results: MBs - ok., ICB/CCB ok

5. Interference Checks (check all that apply)	✓	

✓ICS A/B Recoveries Acceptable
__Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ICS %R >120%, results >IDL estimated (J)
__ICS %R 50-79%, results >IDL estimated (J)
__ICS %R 50-79%, results <IDL estimated (UJ)
__ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:

6. Laboratory Control Samples (check all that apply)	✓	

✓LCS %R 80-120
__LCS %R 50-79% or >120%, results >IDL estimated (J)
✓LCS %R 50-79% and results <IDL estimated (UJ)
__LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results: Sulfide low 70%, UJ for SY-PL2-120A, SY-PL2-134A

Gen Chem SRM's ok.

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
7. Duplicate (check all that apply)	✓	

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results: Wet Chem ok, Gen Chem ok.

8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
__ Spike %R 30-74%, >125%, results >IDL estimated (J)
✓ Spike %R 30-74% results <IDL estimated (UJ)
__ Spike %R <30%, results <IDL rejected (UR)
__ Field blank used for spike analysis

Comments/Qualified Results: Cr MS %R 2.4%, not in narr, UJ for SY-PL2-120A-F, J for SY-PL2-154A-F

9. GFAA Performance		

__ Duplicate injection RSD <20%
__ Duplicate injection RSD >20%, results >CRDL estimated (J)
__ Analytical spike %R 85-115%
__ Analytical spike %R 40-85%, results >IDL estimated (J)
__ Analytical spike %R 10-40%, results <IDL estimated (UJ)
__ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial D. ok.

11. Field Duplicates	—	—

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: not in this SDG

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: Data usable as qualified / reported

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0391

ARI Client: The Boeing Company
ARI Project ID: HV22

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-120A	05BR0391 - 5	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154A	05BR0391 - 6	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154B	05BR0391 - 7	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154C	05BR0391 - 8	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U

G 4.4.05

Thursday, March 24, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for Brooks Rand Report # 05BR0391

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0391

ARI Client: The Boeing Company
ARI Project ID: HV22

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-120A-F	05BR0391 - 1	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154A-F	05BR0391 - 2	3/15/2005	3/16/2005	05-0147	60.400	ng/L	
SY-PL2-154B-F	05BR0391 - 3	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U
SY-PL2-154C-F	05BR0391 - 4	3/15/2005	3/16/2005	05-0147	25.000	ng/L	U

4-4-05

Thursday, March 24, 2005

Project Manager

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QH
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-120A-F
ARI ID: 05-4773 HV22A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

4.4.05

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/22/05

Project: P2OG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-154A-F
ARI ID: 05-4774 HV22B

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#1	SM3500Cr-D	mg/L	0.011	0.012 J

RL Analytical reporting limit
U Undetected at reported detection limit

4.4.05

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: AHP
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-120A
ARI ID: 05-4777 HV22E

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/11/05	SM 2580	mv	0.1	64.0
N-Ammonia	03/11/05 031105#1	EPA 350.1M	mg-N/L	0.020	1.26
N-Nitrate	03/12/05	Calculated	mg-N/L	0.010	0.036
N-Nitrite	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	0.036
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	10.0	105
Sulfide	03/11/05 031105#1	EPA 376.2	mg/L	0.05	< 0.05 U UJ
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	4.45

RL Analytical reporting limit
U Undetected at reported detection limit

9.4.05

SAMPLE RESULTS-CONVENTIONALS
HV22-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/22/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Client ID: SY-PL2-154A
ARI ID: 05-4778 HV22F

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/11/05	SM 2580	mv	0.1	49.0
N-Ammonia	03/11/05 031105#1	EPA 350.1M	mg-N/L	0.100	6.18
N-Nitrate	03/12/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	0.016
Nitrate + Nitrite (NO3+NO2)	03/12/05 031205#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	14.1
Sulfide	03/11/05 031105#1	EPA 376.2	mg/L	0.05	< 0.05 U UJ ✓
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	14.5

RL Analytical reporting limit
U Undetected at reported detection limit

5.4.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**21.9**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**2.8**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**12**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.4.05
000050

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-154B
SAMPLE

Lab Sample ID: HV22G
LIMS ID: 05-4779
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.5	**3.5**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

SJ 4.4.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-154C
SAMPLE

Lab Sample ID: HV22H
LIMS ID: 05-4780
Matrix: Water
Data Release Authorized
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	2	2	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	2	**4**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

8.4.4.05
000054

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.5	**46.7**	
3010A	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	1	**3**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	2	2	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	1	**3**	
3010A	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.5	0.5	U
3010A	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**6**	
3010A	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-154C-F
SAMPLE

Lab Sample ID: HV22D
LIMS ID: 05-4776
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-38-2	Arsenic	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	2	2	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	2	**4**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**5**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

GJ 4.4.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-120A-F
SAMPLE

Lab Sample ID: HV22A
LIMS ID: 05-4773
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**3.8**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	**7440-50-8**	**Copper**	0.5	**0.6**	
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**1.3**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.4.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-154A-F
SAMPLE

Lab Sample ID: HV22B
LIMS ID: 05-4774
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.2	**21.3**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	**Lead**	1	**1**	**U**
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.8**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/17/05	**7440-62-2**	**Vanadium**	3	**11**	
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

54.405

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-154B-F
SAMPLE

Lab Sample ID: HV22C
LIMS ID: 05-4775
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/17/05	7440-36-0	Antimony	50	50	U
200.8	03/17/05	200.8	03/21/05	**7440-38-2**	**Arsenic**	0.5	**3.2**	
6010B	03/15/05	6010B	03/17/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/17/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/17/05	7440-47-3	Chromium	5	5	U
200.8	03/17/05	200.8	03/21/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/17/05	200.8	03/21/05	7439-92-1	Lead	1	1	U
200.8	03/17/05	200.8	03/21/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
6010B	03/15/05	6010B	03/17/05	7782-49-2	Selenium	50	50	U
200.8	03/17/05	200.8	03/21/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/17/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/17/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/17/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

SJ 4.4.05

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ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: Boeing P2 DG South Yard
LABORATORY: ART	SDG: HU22
SAMPLES/MATRIX/ANALYSES: water	
SY-PL2-120A	
SY-PL2-154A	
SY-PL2-154B	
SY-PL2-154C	

DATA ASSESSMENT SUMMARY

Review Item	VOA (Simp VOA)	BNA	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD LCS/LCSD	O	O	—					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: no TB. 5°-6° coolers-ok.
NO Spikes
SY-PL2-154C pH 7.2, lab run outside 7 d (unpreserved)
all Cmpds J/UJ

Validated by: Christin Jung Date: 4.5.05

Reviewed by: [signature] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
✓ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply)	✓	

✓ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: _____

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
__ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) (if no, R detects)
__Standard Checks within Retention Time Window (if no, check against expanded windows and if outside, qualify R/UR)
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓Initial calibration performed ✓
✓Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓Continuing calibration performed
✓Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓RSD ≤10% for performance checks (if no, J detects)
✓All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

Comments/Qualified Results:

VOA CCAL 3/18/05 72.5% 2Clve, 2hexF, 4me2P UJ for SY-PL2-{120A, 154A, 154B, 154C}
CCAL 3/18/05 RF<.05 acetone, 2Clve, 4me2P RJ there for the floor samples.

SVOA ICAL 3/2/05 >30 4,6dinitro-2-methylphenol UJ for SY-PL2-120A, 154A

	Acceptable Yes	Acceptable No
6. Blanks	✓	

✓Method blanks analyzed ✓, SV
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet)
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet)
Qualify sample results <5x above as U at SQL

Comments/Qualified Results:

SVOA CCAL 3/17/05 %D>25 hexachlorocyclop., 4 nitrophenol - UJ for SY-PL2-120A, 154A

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates.	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed V, SV
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

8. Matrix Spike/Matrix Spike Duplicate		

__ MS/MSD analyzed
__ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: VOA LCS/LCSD ok, SVOA ok
No spikes for this SDG

9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC V, SV
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
✓ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
11. Tentatively Identified Compounds (TIC)		✓

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexane derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
___Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification	✓	

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits	✓	

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance	✓	

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results: Data usable as qualified
to recals, all waters.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 17:07
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	97.0%
Tetrachlorometaxylene	81.8%

4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/16/05
Date Analyzed: 03/18/05 17:24
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	109%
Tetrachlorometaxylene	62.2%

5.4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 17:37
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	71.3%
d14-Dibenzo(a,h)anthracene	80.7%

94.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 18:03
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.7%
d14-Dibenzo(a,h)anthracene	53.7%

SJ 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:05
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4-5-05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-120A
SAMPLE

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Date Analyzed: 03/17/05 14:05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.6%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	81.6%	d4-1,2-Dichlorobenzene	66.4%
d5-Phenol	69.9%	2-Fluorophenol	67.2%
2,4,6-Tribromophenol	83.2%	d4-2-Chlorophenol	74.9%

4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized: MW
Reported: 03/18/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Date Extracted: 03/15/05
Date Analyzed: 03/17/05 14:38
Instrument/Analyst: NT4/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4.4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Date Analyzed: 03/17/05 14:38

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.2%	2-Fluorobiphenyl	63.6%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	58.7%	2-Fluorophenol	57.3%
2,4,6-Tribromophenol	75.5%	d4-2-Chlorophenol	64.5%

SJ 4.5.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS Method 8260B **Sample ID: SY-PL2-120A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV22E
LIMS ID: 05-4777
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 16:52

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.2**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U ~~UJ~~ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U ~~UJ~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U ~~UJ~~ R
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108 90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	102%
Bromofluorobenzene	90.2%
d4-1,2-Dichlorobenzene	106%

94.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-154A
SAMPLE

Lab Sample ID: HV22F
LIMS ID: 05-4778
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 17:20

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	**Vinyl Chloride**	**0.2**	**2.9**	
75-00-3	Chloroethane	0.2	< 0.2 U	
75-09-2	Methylene Chloride	0.3	< 0.3 U	
67-64-1	**Acetone**	**1.0**	**3.4**	J
75-15-0	Carbon Disulfide	0.2	< 0.2 U	
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	
75-34-3	**1,1-Dichloroethane**	**0.2**	**9.0**	
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**3.4**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.3**	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	Trichloroethene	0.2	< 0.2 U	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	Benzene	0.2	< 0.2 U	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U ~~UJ~~ R	
75-25-2	Bromoform	0.2	< 0.2 U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U ~~UJ~~ R	
591-78-6	2-Hexanone	1.0	< 1.0 U UJ	
127-18-4	Tetrachloroethene	0.2	< 0.2 U	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	
108-88-3	Toluene	0.2	< 0.2 U	
108-90-7	Chlorobenzene	0.2	< 0.2 U	
100-41-4	Ethylbenzene	0.2	< 0.2 U	
100-42-5	Styrene	0.2	< 0.2 U	
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	104%
Bromofluorobenzene	94.8%
d4-1,2-Dichlorobenzene	110%

9 4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-154B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV22G
LIMS ID: 05-4779
Matrix: Water
Data Release Authorized: TMW
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 17:47

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061 02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U ~~UJ~~ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U ~~UJ~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	**Trichlorofluoromethane**	**0.2**	**0.6**
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	106%
Bromofluorobenzene	90.5%
d4-1,2-Dichlorobenzene	104%

5.4.5.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-154C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV22H
LIMS ID: 05-4780
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV22-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/10/05
Date Received: 03/10/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 18:14

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	UJ
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	Vinyl Chloride	0.2	< 0.2 U	
75-00-3	**Chloroethane**	**0.2**	**0.3**	J
75-09-2	Methylene Chloride	0.3	< 0.3 U	UJ
67-64-1	Acetone	1.0	< 1.0 ~~U~~	R
75-15-0	Carbon Disulfide	0.2	< 0.2 U	UJ
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U	
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U	
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06 2	1,2 Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	Trichloroethene	0.2	< 0.2 U	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00 5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	Benzene	0.2	< 0.2 U	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U	~~UJ~~ R
75-25-2	Bromoform	0.2	< 0.2 U	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U	~~UJ~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U	UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	UJ
108-88-3	**Toluene**	**0.2**	**0.6**	J
108-90-7	Chlorobenzene	0.2	< 0.2 U	UJ
100-41-4	Ethylbenzene	0.2	< 0.2 U	
100-42-5	Styrene	0.2	< 0.2 U	
75-69-4	**Trichlorofluoromethane**	**0.2**	**0.5**	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	UJ
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	106%
Bromofluorobenzene	93.0%
d4-1,2-Dichlorobenzene	108%

S 4.5.05

FORM I

INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: Pomery HV41
LABORATORY: ABI	SDG: P2DG South Yard HV41

SAMPLES/MATRIX/ANALYSES: Water total + diss metals, gen chem

SY-PL2-1516A	SY-PL2-1516A-F	Gen Chem
-111516A	111516A-F-1	N-Amm Sulfate
-151C	151C-F	N-Nitrite Sulfide
-151B	151B-F	NO3+NO2 TOC
-151A	151A-F	

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	HG	CYANIDE	OTHER (Gen Chem)
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS / SRM	O		—		O Sulfide
7. Duplicate RPD	O		—		O
8. Spike Recovery	O		QRO		O
9. MSA	—		—		—
10. Other QC	O		—		O
11. Field Duplicates	O		O		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: FD pair SY-PL2-1516A / 111516A ok
SY-PL2-1516A-F / 111516A-F-1 ok

lab rec'd SY-PL2-151C & SY-PL2-151C-F unpreserved - lab adjusted pH prior to sml prep.

Crtly not run on SY-PL2-111516A-F-1 - insuff. sml volume.

Validated by: [signature] Date: 4.9.05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
__ Mercury analyzed in <28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:_____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	___

___Detects reported in ICB/CCB, list:_____

___Detects in preparation blanks, list:_____

___Detects in field blanks, list:_____

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results:_____

	Acceptable Yes	No
5. Interference Checks (check all that apply)	✓	___

✓ICS A/B Recoveries Acceptable
___Al, Ca, Fe, Mg sample concentrations >ICS concentrations
___ICS %R >120%, results >IDL estimated (J)
___ICS %R 50-79%, results >IDL estimated (J)
___ICS %R 50-79%, results <IDL estimated (UJ)
___ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:_____

	Acceptable Yes	No
6. Laboratory Control Samples (check all that apply)	✓	___

✓LCS %R 80-120
___LCS %R 50-79% or >120%, results >IDL estimated (J)
___LCS %R 50-79% and results <IDL estimated (UJ)
___LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
7. Duplicate (check all that apply)	✓	

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	No
8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
__ Spike %R 30-74%, >125%, results >IDL estimated (J)
__ Spike %R 30-74% results <IDL estimated (UJ)
__ Spike %R <30%, results <IDL rejected (UR)
__ Field blank used for spike analysis

Comments/Qualified Results: Cr+6 zero (0%R) UJ SY-PLZ-151A-F, 151A-F
n-Nitrite (59%) ~~UJ~~ J SY-PLZ-151A
NO_3+NO_2 (41%) UJ SY-PLZ-151A

9. GFAA Performance		

__ Duplicate injection RSD <20%
__ Duplicate injection RSD >20%, results >CRDL estimated (J)
__ Analytical spike %R 85-115%
__ Analytical spike %R 40-85%, results >IDL estimated (J)
__ Analytical spike %R 10-40%, results <IDL estimated (UJ)
__ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial Dilution run; ok.

11. Field Duplicates	✓	

✓ Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results:

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: Data usable as reported / Overall

recalc SY-RL2-160A-F V 10 µg/L HV41A

.00996 µg/L x 100D 9.9 µg/L x 50/50 = 9.9 µg/L.

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report # 05BR0393

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0393

ARI Client: The Boeing Company
ARI Project ID: HV41

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-156A	05BR0393 - 6	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-11156A-1	05BR0393 - 7	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151C	05BR0393 - 8	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151B	05BR0393 - 9	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151A	05BR0393 - 10	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U

4.9.05

Monday, March 28, 2005

Elizabeth Madonick
Project Manager

000067

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report # 05BR0393

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0393

ARI Client: The Boeing Company
ARI Project ID: HV41

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-156A-F	05BR0393 - 1	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-11156A-F-1	05BR0393 - 2	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151C-F	05BR0393 - 3	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151B-F	05BR0393 - 4	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
SY-PL2-151A-F	05BR0393 - 5	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
Filter Blank 1	05BR0393 - 11	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U
Filter blank 2	05BR0393 - 12	3/16/2005	3/17/2005	05-0150	25.000	ng/L	U

5.4.905

Monday, March 28, 2005

Elizabeth Madonick
Project Manager

000068

SAMPLE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Client ID: SY-PL2-151A
ARI ID: 05-5003 HV41J

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/11/05	SM 2580	mv	0.1	49.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.010	0.203
N-Nitrate	03/12/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/12/05 031205#2	EPA 353.2	mg-N/L	0.010	0.036 J
Nitrate + Nitrite (NO3+NO2)	03/12/05 031205#2	EPA 353.2	mg-N/L	0.010	< 0.010 U UJ
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	4.0	40.3
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/14/05 031405#1	EPA 415.1	mg/L	1.50	2.27

RL Analytical reporting limit
U Undetected at reported detection limit

5.4.905
000059

SAMPLE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: aat
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Client ID: SY-PL2-156A-F
ARI ID: 05-4994 HV41A

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#2	SM3500Cr-D	mg/L	0.011	< 0.011 U us

RL Analytical reporting limit
U Undetected at reported detection limit

4.4.05

SAMPLE RESULTS-CONVENTIONALS
HV41-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: DAR
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Client ID: SY-PL2-151A-F
ARI ID: 05-4998 HV41E

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/11/05 031105#2	SM3500Cr-D	mg/L	0.011	< 0.011 U 45

RL Analytical reporting limit
U Undetected at reported detection limit

jy 4.9.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-156A-F
SAMPLE

Lab Sample ID: HV41A
LIMS ID: 05-4994
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**98.8**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.9.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-11156A-F-1
SAMPLE

Lab Sample ID: HV41B
LIMS ID: 05-4995
Matrix: Water
Data Release Authorized
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**99.8**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**10**	
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

3/23/05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-151C-F
SAMPLE

Lab Sample ID: HV41C
LIMS ID: 05-4996
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**5**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**4**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**5**	
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-151B-F
SAMPLE

Lab Sample ID: HV41D
LIMS ID: 05-4997
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**4.4**	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-151A-F
SAMPLE

Lab Sample ID: HV41E
LIMS ID: 05-4998
Matrix: Water
Data Release Authorized
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	4.5	
6010B	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	**7440-50-8**	**Copper**	1	1	
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	1	3	
6010B	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.5	0.5	U
6010B	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05
000046

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**106**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	10	
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**104**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**10**	
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: **SY-PL2-151C**
SAMPLE

Lab Sample ID: HV41H
LIMS ID: 05-5001
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**6**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**3**	
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-151B
SAMPLE

Lab Sample ID: HV411
LIMS ID: 05-5002
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	1	**4**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: HV41J
LIMS ID: 05-5003
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/15/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/16/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**5.0**	
3010A	03/15/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/15/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/15/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/16/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/16/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/16/05	200.8	03/22/05	**7440-02-0**	**Nickel**	1	**3**	
3010A	03/15/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/16/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/15/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/15/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/15/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.9.05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: P2DG South Yard
LABORATORY: ARI	SDG: 4V41
SAMPLES/MATRIX/ANALYSES: Water	
SY-PL2-156A SY-PL2-157A	
SY-PL2-111156A-1	
SY-PL2-157C	
SY-PL2-157B	

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA (SVOA)	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. ~~MS/MSD~~ LCS/LCSD	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O	O					
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: FD pair SY-PL2-156A / 111156A-1
VOA compare, All compare

Validated by: Christin Jenn Date: 4.9.05

Reviewed by: [signature] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
__ Sample Preparation Data
__ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply)	✓	

✓ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
__ BNA samples extracted in 7 days (14 days soils) from collection
__ BNA extracts analyzed in 40 days from extraction
__ Pest/PCB samples extracted in 7 days (14 days soils) from collection
__ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: SH-PLZ-15C PHC 3/11 - VOA 3/18 ok. no action.

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
__ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [if no, R detects]
__Standard Checks within Retention Time Window (if no, check against expanded windows and if outside, qualify R/UR)
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
__DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

	Acceptable Yes	No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓ RSD ≤10% for performance checks (if no, J detects)
✓ All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓ Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) [if no, J all detects]

R-SY-PL2-151C

Comments/Qualified Results: VOA ICAL 3/15/05 RF<.05 all acetone J {SY-PL2-152A
VOA CCAL >25 3/18/05 2Cl-ee, 4Me2P, 2Hex UJ all spls SY-PL2-111SA
VOA CCAL <.05 3/18/05 11:21 <.05 2Cl-ee R all spls SY-PL2-151B
SVOA ICAL >30 3/2/05 4Me-2Pen UJ all spls SY-PL2-151A
{SY-PL2-152A
{SY-PL2-111SA

	Acceptable Yes	No
6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet)
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
✓ Other TCL compounds detected (list or attach summary sheet) Sim MS Naphthalene .13 µg/L
Qualify sample results <5x above as U at SQL

Comments/Qualified Results: 'U' naph for SY-PL2-152A, 111SA-1

SVOA CCAL 3/22/05 >25 benzalc., benz acid, hexachl., 24DNP, 4nitrop.
UJ these cmpds for SY-PL2-152A, -111152A

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate		

__ MS/MSD analyzed
__ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: VOA: LCS/LCSD ran, SV LCS/LCSD ran
SIM LCS/LCSD
PCB LCS/LCSD

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
__ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
11. Tentatively Identified Compounds (TIC)		

__TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
__TIC's identified properly
__TIC's present in blank and samples (qualify according to 5x rule)
__Common laboratory contaminants reported as TIC's (qualify the following as rejected CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes))
__Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification	✓	

✓ All results supported in raw data
__Transcription errors identified (note constituent(s) and changes below)
__Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits	✓	

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance	✓	

__Baseline anomalies noted which affect quantitation (J/UJ)
__High background MS levels noted which affect quantitation (J/UJ)
__Extraneous or coeluting peaks affecting quantitation (J/UJ)
__Poor resolution (J/UJ)
__Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

VOA recalc HV4LF VC 8.8 ug/L

3/18/05 $\frac{15/4860 \times 5872}{75478 \times .86562} = 8.9$ ok.

SVOA - ND - no recalcs.

PCBs " "

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 15:59
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.10**	**0.36 B**
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.3%
d14-Dibenzo(a,h)anthracene	65.7%

4.9.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/23/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 16:24
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.10**	**0.27 B**
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	67.3%
d14-Dibenzo(a,h)anthracene	73.7%

4.9.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/21/05 18:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.5%
Tetrachlorometaxylene	72.8%

4.9.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/21/05 19:00
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	84.0%
Tetrachlorometaxylene	75.0%

G4.9-05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 21:42
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U UJ
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

94.905
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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-156A
SAMPLE

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Date Analyzed: 03/22/05 21:42

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 UUJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	67.5%	2-Fluorophenol	62.9%
2,4,6-Tribromophenol	79.2%	d4-2-Chlorophenol	68.5%

4.9.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Date Extracted: 03/17/05
Date Analyzed: 03/22/05 22:15
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U UJ
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U UJ
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

54.905

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Date Analyzed: 03/22/05 22:15

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.4%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	70.8%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	67.7%	2-Fluorophenol	62.1%
2,4,6-Tribromophenol	80.5%	d4-2-Chlorophenol	68.0%

5.4.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-156A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV41F
LIMS ID: 05-4999
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 20:03

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	**Vinyl Chloride**	**0.2**	**8.8**	
75-00-3	Chloroethane	0.2	< 0.2 U	
75-09-2	Methylene Chloride	0.3	< 0.3 U	
67-64-1	**Acetone**	**1.0**	**1.8**	J
75-15-0	Carbon Disulfide	0.2	< 0.2 U	
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	
75-34-3	**1,1-Dichloroethane**	**0.2**	**4.0**	
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.6**	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	**Trichloroethene**	**0.2**	**0.4**	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	**Benzene**	**0.2**	**0.4**	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ R	
75-25-2	Bromoform	0.2	< 0.2 U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U	UJ
591-78-6	2-Hexanone	1.0	< 1.0 U	UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	
108-88-3	Toluene	0.2	< 0.2 U	
108-90-7	Chlorobenzene	0.2	< 0.2 U	
100-41-4	Ethylbenzene	0.2	< 0.2 U	
100-42-5	Styrene	0.2	< 0.2 U	
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	102%
Bromofluorobenzene	96.0%
d4-1,2-Dichlorobenzene	111%

4.9.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-11156A-1
SAMPLE

Lab Sample ID: HV41G
LIMS ID: 05-5000
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 20:30

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**6.7**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.0** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**3.9**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.5**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.4**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 UR
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 UUJ
591-78-6	2-Hexanone	1.0	< 1.0 UUJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	97.8%
Bromofluorobenzene	89.0%
d4-1,2-Dichlorobenzene	106%

6.4.9.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-151C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV41H
LIMS ID: 05-5001
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 20:57

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ UJ
591-78-6	2-Hexanone	1.0	< 1.0 ~~U~~ UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	103%
Bromofluorobenzene	94.0%
d4-1,2-Dichlorobenzene	110%

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FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-151B**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV41I
LIMS ID: 05-5002
Matrix: Water
Data Release Authorized:
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 21:24

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**5.4** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~UJ
591-78-6	2-Hexanone	1.0	< 1.0 ~~U~~UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	100%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	108%

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FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: HV41J
LIMS ID: 05-5003
Matrix: Water
Data Release Authorized: MW
Reported: 03/22/05

QC Report No: HV41-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/11/05
Date Received: 03/11/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/18/05 21:52

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**1.8** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.8**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**6.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ UJ
591-78-6	2-Hexanone	1.0	< 1.0 ~~U~~ UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	96.5%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	104%

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INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: Boeing P2D6 South Yard
LABORATORY: ABI	SDG: HV52
SAMPLES/MATRIX/ANALYSES: water	

SY-PL2-106B-F	SY-PL2-155C-F	SY-PL2-106A	SY-PL2-155B
106C-F	955A-F	106B	155C
155A-F	601A-F	106C	955A
155B-F	106A-F	155A	601A

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	HG (Brooks Rand)	CYANIDE	OTHER (Gen Chem)
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS	O		OPR O		—
7. Duplicate RPD	O		—		O
8. Spike Recovery	O		O		O
9. MSA	—		—		—
10. Other QC	O		—		—
11. Field Duplicates	—		—		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

metals: SY-PL2-106C, 106C-F, 155C, 155C-F rec'd @ lab w/ unpreserved - lab pH adjusted prior to analysis - no action taken

Brooks Rand notes for SY-PL2-106C 20 mls of spl lost during prep as a result of ~~bubbling~~ foaming upon addition of HCl. Value qual UJ

Validated by: (Christir) [illegible] Date: 4.14.05

Reviewed by: [illegible] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
__ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in < 28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:
Redox Potential HT exceeded for SY-DL2-955A - qual J

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

__Detects reported in ICB/CCB, list:_____

__Detects in preparation blanks, list:_____

__Detects in field blanks, list:_____

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results:_____

5. Interference Checks (check all that apply) . . . . . ✓ __

✓ ICS A/B Recoveries Acceptable
__Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ICS %R >120%, results >IDL estimated (J)
__ICS %R 50-79%, results >IDL estimated (J)
__ICS %R 50-79%, results <IDL estimated (UJ)
__ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:_____

6. Laboratory Control Samples (check all that apply) . . . . . ✓ __

✓ LCS %R 80-120
__LCS %R 50-79% or >120%, results >IDL estimated (J)
__LCS %R 50-79% and results <IDL estimated (UJ)
__LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
7. Duplicate (check all that apply)	✓	

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	No
8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
__ Spike %R 30-74%, >125%, results >IDL estimated (J)
__ Spike %R 30-74% results <IDL estimated (UJ)
✓ Spike %R <30%, results <IDL rejected (UR)
__ Field blank used for spike analysis

Comments/Qualified Results:
Cr+6 MS not recovered - UJ for SY-PL2-155A-F

	Acceptable Yes	No
9. GFAA Performance		

__ Duplicate injection RSD <20%
__ Duplicate injection RSD >20%, results >CRDL estimated (J)
__ Analytical spike %R 85-115%
__ Analytical spike %R 40-85%, results >IDL estimated (J)
__ Analytical spike %R 10-40%, results <IDL estimated (UJ)
__ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:
NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial D- ok

11. Field Duplicates . . . . . — e

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: none in this pkg

12. Result Verification . . . . . ✓

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment . . . . . ✓

Comments/Qualified Results:

Spl. V Reals HV52A V: 8 µg/L

.00796 mg/L X50/50 X1000 = 7.9 µg/L ok.

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0403

ARI Client: The Boeing Company
ARI Project ID: HV52

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-106A	05BR0403 - 1	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-106B	05BR0403 - 2	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-106C	05BR0403 - 3	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U UJ
SY-PL2-155A	05BR0403 - 4	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155B	05BR0403 - 5	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155C	05BR0403 - 6	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-955A	05BR0403 - 7	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-601A	05BR0403 - 8	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U

4.14.05

Tuesday, March 29, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0403

ARI Client: The Boeing Company
ARI Project ID: HV52

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-106A-F	05BR0403 - 9	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-106B-F	05BR0403 - 10	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-106C-F	05BR0403 - 11	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155A-F	05BR0403 - 12	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155B-F	05BR0403 - 13	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-155C-F	05BR0403 - 14	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-955A-F	05BR0403 - 15	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U
SY-PL2-601A-F	05BR0403 - 16	3/21/2005	3/23/2005	05-0160	25.000	ng/L	U

5.4.14.05

Tuesday, March 29, 2005

Elizabeth Madonick
Project Manager

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ap
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-155A
ARI ID: 05-5092 HV52D

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	34.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	8.61
N-Nitrate	03/16/05	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.050	0.052
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.050	0.056
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	36.2
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	14.2

RL Analytical reporting limit
U Undetected at reported detection limit

5.4.14.05

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-155B
ARI ID: 05-5093 HV52E

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	37.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	8.97
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	7.2
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	13.9

RL Analytical reporting limit
U Undetected at reported detection limit

5.4.14.05

000073

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-955A
ARI ID: 05-5095 HV52G

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	40.0 J
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	8.63
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.010	0.036
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.010	0.020
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	10.0	24.9
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	0.08
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	15.0

RL Analytical reporting limit
U Undetected at reported detection limit

5.4.14.05

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-601A
ARI ID: 05-5096 HV52H

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	30.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.020	1.23
N-Nitrate	03/16/05	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	03/16/05 031605#4	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#5	EPA 353.2	mg-N/L	0.050	< 0.050 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	4.0	50.3
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	3.22

RL Analytical reporting limit
U Undetected at reported detection limit

G4.14.05

SAMPLE RESULTS-CONVENTIONALS
HV52-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Client ID: SY-PL2-155A-F
ARI ID: 05-5100 HV52L

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/15/05 031505#1	SM3500Cr-D	mg/L	0.011	< 0.011 U UJ

RL Analytical reporting limit
U Undetected at reported detection limit

4/14/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106A
SAMPLE

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**38.4**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.7**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**8**	
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5/4/04.05
000047

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106B
SAMPLE

Lab Sample ID: HV52B
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.5**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.5**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

8 4.14.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-106C
SAMPLE

Lab Sample ID: HV52C
LIMS ID: 05-5091
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**4**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**7**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.14.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**93.4**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	1	1	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	7440-02-0	Nickel	1	1	U
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**19**	
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

G 4.14.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-155B
SAMPLE

Lab Sample ID: HV52E
LIMS ID: 05-5093
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**3.6**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.14.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-155C
SAMPLE

Lab Sample ID: HV52F
LIMS ID: 05-5094
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**8**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**7**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

9.4.14.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: SY-PL2-955A
SAMPLE

Lab Sample ID: HV52G
LIMS ID: 05-5095
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**95.1**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**15**	
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

G 4/14/05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-601A
SAMPLE

Lab Sample ID: HV52H
LIMS ID: 05-5096
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**11.8**	
3010A	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.6**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.6**	
3010A	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

GJ 4.14.05
000056

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-106A-F
SAMPLE

Lab Sample ID: HV52I
LIMS ID: 05-5097
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**35.1**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.2**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.8**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**9**	
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

GU 4/14/05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-106B-F
SAMPLE

Lab Sample ID: HV52J
LIMS ID: 05-5098
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.6**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.1**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	**7440-66-6**	**Zinc**	6	**34**	

U-Analyte undetected at given RL
RL-Reporting Limit

54114.0T

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-106C-F
SAMPLE

Lab Sample ID: HV52K
LIMS ID: 05-5099
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**4**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**7**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

G 4.14.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-155A-F
SAMPLE

Lab Sample ID: HV52L
LIMS ID: 05-5100
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**94.0**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.8**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.0**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**18**	
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

9/14/05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-155B-F
SAMPLE

Lab Sample ID: HV52M
LIMS ID: 05-5101
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**3.3**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.5**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-155C-F
SAMPLE

Lab Sample ID: HV52N
LIMS ID: 05-5102
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	100	100	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	2	**9**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	4	4	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	10	10	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	2	2	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	2	**6**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	100	100	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	100	100	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	6	6	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

SH.1405

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-955A-F
SAMPLE

Lab Sample ID: HV520
LIMS ID: 05-5103
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**97.9**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/21/05	**7440-62-2**	**Vanadium**	3	**18**	
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

SJ 4.14.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-601A-F
SAMPLE

Lab Sample ID: HV52P
LIMS ID: 05-5104
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/21/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**12.0**	
6010B	03/18/05	6010B	03/21/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/21/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/21/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.6**	
6010B	03/18/05	6010B	03/21/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/21/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/21/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/21/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: Boeing P206 South Yard
LABORATORY: ARI	SDG: HV52
SAMPLES/MATRIX/ANALYSES: Water	
SY-PL2-106A	SY-PL2-155B
106B	155C
106C	955A
155A	601A

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA 8270	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC	GC
1. Data Completeness	O	O	O					
2. Holding Times	O	O	O					
3. GC/MS Tuning	O	O	—					
4. Instrument Performance	—	—	O					
5. Calibrations	O	O	O					
6. Blanks	O	O	O					
7. Surrogates	O	O	O					
8. MS/MSD LCS/LCSM.	O	O	O					
9. Internal Standards	O	O	—					
10. Compound Identification	O	O						
11. Tent. Ident. Cmpds (TIC)	—	—	—					
12. Result Verification	O	O	O					
13. Detection Limits	O	O	O					
14. System Performance	O	O	O					
15. Overall Assessment	O	O	O					

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

Validated by: Christin Jenn Date: 4.14.05

Reviewed by: [illegible] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
__ Sample Preparation Data
__ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply)	✓	

✓ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
__ BNA samples extracted in 7 days (14 days soils) from collection
__ BNA extracts analyzed in 40 days from extraction
__ Pest/PCB samples extracted in 7 days (14 days soils) from collection
__ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: SY-PL2-106C, SY-PL2-155C pH 6-8 analyzed 9 days (2 days past HT), all compds J, UJ

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
__ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) (if no, R detects)
__Standard Checks within Retention Time Window (if no, check against expanded windows and if outside, qualify R/UR)
__DDT and/or Endrin Breakdowns > 20% (J/UR DDT and Endrin, NJ all breakdown product hits)
__DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results: _____

5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓ RSD ≤10% for performance checks (if no, J detects)
__All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓ Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

Comments/Qualified Results: MeCl2 + 2 cave 'R' all -106A, 106B, 106C, 155A, 155B, 155C, 955A, 6016
VOA ICAL 3/22/05 2 cave < .05, 4 me 2P < .05
VOA CCAL 3/23/05 >25 acetone, MeCl2 - MeCl2 no further action
acetone J/UJ all samples
SVOA CCAL 3/23/05 >25 hexachlorop., 2,4DNP UJ for -155A

6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet) _____
__TICs detected (list or attach summary sheet) _____
Qualify sample results < 10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet) _____
Qualify sample results <5x above as U at SQL

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates.	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate	✓	

✓ MS/MSD analyzed
✓ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: MS/MSD not reviewed for 2CPE, LCS/LCSD recovered. 2CPE UJ for SY-PL2-106A

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
__ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexane derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
___Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification . . . . . ✓ ___

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits . . . . . ✓ ___

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

VOA recalc: VC 14 ug/L

$\frac{440491 \times 4}{69134 \times 1.98895}$ & 13 (rounding)

SVOA - ND - no recalc

Sim

PCB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized: MW
Reported: 03/28/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 01:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	79.2%
Tetrachlorometaxylene	84.5%

S 4.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-955A
SAMPLE

Lab Sample ID: HV52G
LIMS ID: 05-5095
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 01:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.5%
Tetrachlorometaxylene	80.5%

4.14.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-601A
SAMPLE

Lab Sample ID: HV52H
LIMS ID: 05-5096
Matrix: Water
Data Release Authorized: MW
Reported: 03/28/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.0%
Tetrachlorometaxylene	82.0%

4.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 13:04
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	89.0%
d14-Dibenzo(a,h)anthracene	81.0%

4.14.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized: MW
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 18:52
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 ~~U~~ UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 ~~U~~ UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Date Analyzed: 03/23/05 18:52

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.6%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	75.2%	2-Fluorophenol	73.3%
2,4,6-Tribromophenol	83.7%	d4-2-Chlorophenol	79.7%

4.14.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-106A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV52A
LIMS ID: 05-5089
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 13:07

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**14**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.0** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**0.9**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**4.2**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.3**
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**3.0**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.3**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.8%
d8-Toluene	98.0%
Bromofluorobenzene	96.2%
d4-1,2-Dichlorobenzene	103%

54.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-106B SAMPLE**

Lab Sample ID: HV52B
LIMS ID: 05-5090
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area 17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 13:34

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.5** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.4**
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 UR
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 UR
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	103%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	100%

4/17/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-106C
SAMPLE

Lab Sample ID: HV52C
LIMS ID: 05-5091
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 15:09

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U UJ
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**8.9** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U UJ
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U R
75-25-2	Bromoform	0.2	< 0.2 U UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U R
591-78-6	2-Hexanone	1.0	< 1.0 U UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichloroflucromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	102%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	98.5%

3/24/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-155A
SAMPLE

Lab Sample ID: HV52D
LIMS ID: 05-5092
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 15:43

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**4.7**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**8.1** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.1**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.4**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.8**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.3**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.8**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	106%
Bromofluorobenzene	98.2%
d4-1,2-Dichlorobenzene	107%

4.14.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-155B
SAMPLE

Lab Sample ID: HV52E
LIMS ID: 05-5093
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 16:13

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**5.2** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 UR
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 UR
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	96.8%
Bromofluorobenzene	88.8%
d4-1,2-Dichlorobenzene	98.2%

SY.14.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-155C**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV52F
LIMS ID: 05-5094
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 16:44

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U UJ
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**7.1** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U UJ
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ R
75-25-2	Bromoform	0.2	< 0.2 ~~U~~ UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	101%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	101%

5/4/14/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-955A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV52G
LIMS ID: 05-5095
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 17:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**5.0**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**9.4** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.0**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.0**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.2**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**0.8**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 UR
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 UR
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	104%
Bromofluorobenzene	98.0%
d4-1,2-Dichlorobenzene	103%

4.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-601A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV52H
LIMS ID: 05-5096
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV52-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/14/05
Date Received: 03/14/05

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/23/05 17:41

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**1.7**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.5** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.3**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**6.3**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**5.0**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 UR
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 UR
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	99.2%
Bromofluorobenzene	96.8%
d4-1,2-Dichlorobenzene	92.8%

SY.14.05

INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: Boeing P20 South Yard
LABORATORY: ARI	SDG: HV67

SAMPLES/MATRIX/ANALYSES: Water total/diss metals gen chem

SY-PL2-152A-F	SY-PL2-603A-F	SY-PL2-152C	SY-PL2-603A
152B-F	603B-F	601B	-603B
152C-F	115A-F	602A	
601B-F	152A	602B	
602A-F	152B		
602B-F			

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	Hg Brady	CYANIDE	OTHER Gen
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS	O		—		SBMO
7. Duplicate RPD	O		O		O
8. Spike Recovery	O		O		O
9. MSA	—		—		—
10. Other QC	SRM O		—		—
11. Field Duplicates	—		—		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: SY-PL2-152C & SY-PL2-152CF rec'd by lab unpreserved for metals, pH adjusted prior to prep - no action

Validated by: Christin J Jensen Date: 4.12.05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
___ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
___ GFAA Raw Data
✓ Hg Raw Data
___ Cyanide Raw Data
___ Other _____

Comments/Qualified Results: _____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
___ Mercury analyzed in < 28 days from collection
___ Cyanide completed in 14 days from collection

Comments/Qualified Results: _____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110% results acceptable
___ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
___ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 80-120 for Hg, results acceptable
___ ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
___ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
___ ICV/CCV %R 85-115 for Cyanide, results acceptable
___ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
___ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results: _____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

__Detects reported in ICB/CCB, list:_____

__Detects in preparation blanks, list:_____

__Detects in field blanks, list:_____

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results:_____

5. Interference Checks (check all that apply)	✓	

✓ICS A/B Recoveries Acceptable
__Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ICS %R >120%, results >IDL estimated (J)
__ICS %R 50-79%, results >IDL estimated (J)
__ICS %R 50-79%, results <IDL estimated (UJ)
__ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:_____

6. Laboratory Control Samples (check all that apply)	✓	

✓LCS %R 80-120
__LCS %R 50-79% or >120%, results >IDL estimated (J)
__LCS %R 50-79% and results <IDL estimated (UJ)
__LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
7. Duplicate (check all that apply)	✓	

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	No
8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
__ Spike %R 30-74%, >125%, results >IDL estimated (J)
__ Spike %R 30-74% results <IDL estimated (UJ)
__ Spike %R <30%, results <IDL rejected (UR)
__ Field blank used for spike analysis

Comments/Qualified Results:

	Acceptable Yes	No
9. GFAA Performance		O

__ Duplicate injection RSD <20%
__ Duplicate injection RSD >20%, results >CRDL estimated (J)
__ Analytical spike %R 85-115%
__ Analytical spike %R 40-85%, results >IDL estimated (J)
__ Analytical spike %R 10-40%, results <IDL estimated (UJ)
__ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial Dilution - ok

11. Field Duplicates	—	—

__Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: None in package

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment	✓	

Comments/Qualified Results: recalc. HV67A

Zn 19 .01942 x 50 x 1000 = 19 ok.
50 x 1000 g

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/23/05 ALR

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-152A
ARI ID: 05-5152 HV67A

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	64.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.020	1.56
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	0.080
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	0.080
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	20.0	112
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	3.39

RL Analytical reporting limit
U Undetected at reported detection limit

9.4.2005

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-601B
ARI ID: 05-5155 HV67D

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	55.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	7.80
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	9.7
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	11.0

RL Analytical reporting limit
U Undetected at reported detection limit

G 4.12.05

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: arf
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-602A
ARI ID: 05-5156 HV67E

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	9.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.050	3.86
N-Nitrate	03/16/05	Calculated	mg-N/L	0.500	< 0.500 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.500	< 0.500 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.500	< 0.500 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	10.0	124
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	7.34

RL Analytical reporting limit
U Undetected at reported detection limit

4.12.05

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ART
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-602B
ARI ID: 05-5157 HV67F

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	48.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.050	2.36
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	0.011
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	0.011
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	5.3
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	0.15
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	6.78

RL Analytical reporting limit
U Undetected at reported detection limit

4.12.05

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 03/23/05

Project: P20G-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-603A
ARI ID: 05-5158 HV67G

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	19.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	5.91
N-Nitrate	03/16/05	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	20.0	126
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	10.5

RL Analytical reporting limit
U Undetected at reported detection limit

4.12.05

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QAP
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-603B
ARI ID: 05-5159 HV67H

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	40.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	5.29
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	8.0
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	13.9

RL Analytical reporting limit
U Undetected at reported detection limit

9.4.1205
000112

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-115A
ARI ID: 05-5161 HV67J

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/15/05	SM 2580	mv	0.1	74.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.010	0.158
N-Nitrate	03/16/05	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	33.0
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/16/05 031605#1	EPA 415.1	mg/L	1.50	2.01

RL Analytical reporting limit
U Undetected at reported detection limit

94.1205
000113

SAMPLE RESULTS-CONVENTIONALS
HV67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Client ID: SY-PL2-152A-F
ARI ID: 05-5162 HV67K

Analyte	Date Batch	Method	Units	RL	Sample
Hexavalent Chrome	03/15/05 031505#2	SM3500Cr-D	mg/L	0.011	< 0.011 U

RL Analytical reporting limit
U Undetected at reported detection limit

5U.1205

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: HV67A
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.4**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**6**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**2.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/23/05	**7440-02-0**	**Nickel**	0.5	**0.7**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**19**	

U-Analyte undetected at given RL
RL-Reporting Limit

94.120
000080

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-152B
SAMPLE

Lab Sample ID: HV67B
LIMS ID: 05-5153
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.7**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.8**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

54.1205
000081

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-152C
SAMPLE

Lab Sample ID: HV67C
LIMS ID: 05-5154
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**1.7**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**13**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.9**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**3.4**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**6**	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

94.12.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-601B
SAMPLE

Lab Sample ID: HV67D
LIMS ID: 05-5155
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.6**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.3**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.5**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	7	

U-Analyte undetected at given RL
RL-Reporting Limit

94.12.05
000083

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**31.4**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.2**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.5**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**4**	
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**10**	

U-Analyte undetected at given RL
RL-Reporting Limit

4/12/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-602B
SAMPLE

Lab Sample ID: HV67F
LIMS ID: 05-5157
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**1.2**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.4**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**4**	
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**953**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.12.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**12.6**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.9**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.2**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

94.12.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.8**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**21**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**4.3**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.5**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
3010A	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: SY-PL2-603B
SAMPLE

Lab Sample ID: HV67H
LIMS ID: 05-5159
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**1.3**	
3010A	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
3010A	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
3010A	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.6**	
3010A	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
3010A	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
3010A	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**414**	

U-Analyte undetected at given RL
RL-Reporting Limit

9/4/12.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-152A-F
SAMPLE

Lab Sample ID: HV67K
LIMS ID: 05-5162
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**0.4**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.9**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**16**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.12.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-152B-F
SAMPLE

Lab Sample ID: HV67L
LIMS ID: 05-5163
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.8**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**0.9**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

94.12.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-152C-F
SAMPLE

Lab Sample ID: HV67M
LIMS ID: 05-5164
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**1.4**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**11**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.8**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**3.1**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**6**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

G 4.12.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-601B-F
SAMPLE

Lab Sample ID: HV67N
LIMS ID: 05-5165
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**6.6**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.5**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

9/4/12 05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-602A-F
SAMPLE

Lab Sample ID: HV67O
LIMS ID: 05-5166
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**30.3**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**0.8**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.8**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**4**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

3/4/12/05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-602B-F
SAMPLE

Lab Sample ID: HV67P
LIMS ID: 05-5167
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**1.1**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.1**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**717**	

U-Analyte undetected at given RL
RL-Reporting Limit

9/4/12-05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-603A-F
SAMPLE

Lab Sample ID: HV67Q
LIMS ID: 05-5168
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.2	**12.7**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.0**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**2.7**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5.4.12.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-603B-F
SAMPLE

Lab Sample ID: HV67R
LIMS ID: 05-5169
Matrix: Water
Data Release Authorized
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	**7440-38-2**	**Arsenic**	0.5	**2.0**	
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	7440-47-3	Chromium	5	5	U
200.8	03/21/05	200.8	03/22/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.7**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	**7440-66-6**	**Zinc**	6	**382**	

U-Analyte undetected at given RL
RL-Reporting Limit

9 24/1205

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-115A-F
SAMPLE

Lab Sample ID: HV67T
LIMS ID: 05-5171
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/18/05	6010B	03/22/05	7440-36-0	Antimony	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-38-2	Arsenic	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-41-7	Beryllium	1	1	U
6010B	03/18/05	6010B	03/22/05	7440-43-9	Cadmium	2	2	U
6010B	03/18/05	6010B	03/22/05	**7440-47-3**	**Chromium**	5	**6**	
200.8	03/21/05	200.8	03/22/05	**7440-50-8**	**Copper**	0.5	**1.3**	
200.8	03/21/05	200.8	03/22/05	7439-92-1	Lead	1	1	U
200.8	03/21/05	200.8	03/22/05	**7440-02-0**	**Nickel**	0.5	**1.2**	
6010B	03/18/05	6010B	03/22/05	7782-49-2	Selenium	50	50	U
200.8	03/21/05	200.8	03/22/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/18/05	6010B	03/22/05	7440-28-0	Thallium	50	50	U
6010B	03/18/05	6010B	03/22/05	7440-62-2	Vanadium	3	3	U
6010B	03/18/05	6010B	03/22/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5/4/05

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0407

ARI Client: The Boeing Company
ARI Project ID: HV67

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Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-152A	05BR0407 - 1	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152B	05BR0407 - 2	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152C	05BR0407 - 3	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-601B	05BR0407 - 4	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602A	05BR0407 - 5	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602B	05BR0407 - 6	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603A	05BR0407 - 7	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603B	05BR0407 - 8	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-903B	05BR0407 - 9	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-115A	05BR0407 - 10	3/21/05	3/24/05	05-0159	25.000	ng/L	U

Wednesday, March 30, 2005

Elizabeth Madonick
Project Manager

4/1/2 05

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0407

ARI Client: The Boeing Company
ARI Project ID: HV67

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-152A-F	05BR0407 - 11	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152B-F	05BR0407 - 12	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-152C-F	05BR0407 - 13	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-601B-F	05BR0407 - 14	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602A-F	05BR0407 - 15	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-602B-F	05BR0407 - 16	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603A-F	05BR0407 - 17	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-603B-F	05BR0407 - 18	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-903B-F	05BR0407 - 19	3/21/05	3/24/05	05-0159	25.000	ng/L	U
SY-PL2-115A-F	05BR0407 - 20	3/21/05	3/24/05	05-0159	25.000	ng/L	U

4.12.05

Wednesday, March 30, 2005

Elizabeth Madonick
Project Manager

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ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: Boeing PZDG South Yard
LABORATORY: ABI	SDG: H1V67
SAMPLES/MATRIX/ANALYSES: Water	
SY-PL2-152A	SY-PL2-602A SY-PL2-115A, RE
152B	602B TBlank.
152C	603A, DL
601B	603B

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA SIM	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC WATER	GC WATER
1. Data Completeness	O	O					O	O
2. Holding Times	O	O					O	O
3. GC/MS Tuning	O	O	—				—	—
4. Instrument Performance	—	—					—	—
5. Calibrations	O	O					O	O
6. Blanks	O	O					O	O
7. Surrogates	O	O					O	O
8. ~~MS/MSD~~ LCS/LCSD	O	O					O	MS/MSD
9. Internal Standards	O	O	—				—	—
10. Compound Identification	O	O	O				O	O
11. Tent. Ident. Cmpds (TIC)	—	—	—				—	—
12. Result Verification	O	O					O	O
13. Detection Limits	O	O					O	O
14. System Performance	O	O					O	O
15. Overall Assessment	O	O					O	O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: TB not on COC.

Validated by: [signature] Date: 4.12.05

Reviewed by: [signature] Date: 4/26/05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
__ Sample Preparation Data
__ Standards Preparation Data

Comments/Action Taken:

2. Holding Times (check all that apply)	✓	

✓ Unpreserved VOA samples analyzed in 7 days from collection (*)
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results:

(*) VOA SY-PL2-1S2C All UJ, pH >2, analyzed in 10 days.

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
__ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [if no, R detects]
✓ Standard Checks within Retention Time Window [if no, check against expanded windows and if outside, qualify R/UR]
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓ DBC, TCMX or DCBP retention time checks within SOW limits [if no, R/UR]

Comments/Qualified Results: PCBs.

	Acceptable Yes	Acceptable No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds [if no, J/UR]
✓ Initial calibration RSDs ≤30% for all compounds [if no, J/UJ]
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds [if no, J/UR]
✓ Continuing calibration %Ds ≤25% for all compounds [if no, J/UJ]
Pesticide/PCB data
✓ RSD ≤10% for performance checks [if no, J detects]
✓ All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓ Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) [if no, J all detects]

R': 152C, TB, 115A, 603A, 152A
J: 603A, 152B, 601B, 602A, 602B, 603B, 115A

Comments/Qualified Results: VOA ICAL 3/15/05 <.05 acetone
V. CCAL 3/25/05 >25 2CLVL UJ: ~~R~~ 603A, 152B, 152C, 601B, 602A, ~~602B~~, 603B, 115A, TB
V. CCAL 3/28/05 " " ~~SW-wide~~ UJ
V. CCAL 3/29/05 " " 2CLVL < .05 - 'R' 152A
SW CCAL 3/23/05 >25 hexachl., 24DNP ~~152A~~, 602A, 603A, 115A

	Acceptable Yes	Acceptable No
6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
__Phthalates detected (list or attach summary sheet)
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet)
Qualify sample results <5x above as U at SQL

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

NWTPH-G - TB not low 2UR - UJ
NWTPH-G - SUVV TPT not recovered - UJ for S4PL2-115A

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate	✓	

✓ MS/MSD analyzed
✓ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
✓ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: ~~2cm not recovered UJ S4PL2-60SA UJ for result. LCS recovered low also. no action.~~ cj 4.12.05
SV - LCS/LCSD only, no MS/MSD

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
__ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
✓ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes)
___Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification . . . . . ✓ ___

✓ All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits . . . . . ✓ ___

✓ Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

recalc - VC 29 µg/L 20 ml

$$\frac{52376 \times 4 \times 20}{79360 \times .9172} = 2.87$$

SVOA - no recalc - all ND.

SIM - " " "

PCBs " " "

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Received: 03/15/05

Data Release Authorized:
Reported: 03/24/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-032105	Method Blank	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5158	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	80.0%
HV67G	SY-PL2-603A	03/21/05	03/22/05	1.0	**Diesel**	**0.65**
05-5158	HC ID: **DRO**		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	84.2%
HV67J	SY-PL2-115A	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5161	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	85.1%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

5.4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

Data Release Authorized:
Reported: 03/31/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-032505	Method Blank	03/25/05		Gasoline	< 0.25 U
05-5158		PID2		HC ID	---
				Trifluorotoluene	96.0%
				Bromobenzene	90.6%
HV67G	SY-PL2-603A	03/25/05		Gasoline	< 0.25 U
05-5158		PID2		HC ID	---
				Trifluorotoluene	78.3%
				Bromobenzene	79.4%
HV67GRE	SY-PL2-603A	03/28/05		Gasoline	< 0.25 U
05-5158		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	102%
MB-032805	Method Blank	03/28/05		Gasoline	< 0.25 U
05-5161		PID2		HC ID	---
				Trifluorotoluene	98.2%
				Bromobenzene	92.6%
HV67J	SY-PL2-115A	03/25/05		Gasoline	< 0.25 U UJ
05-5161		PID2		HC ID	---
				Trifluorotoluene	NR
				Bromobenzene	77.8%
HV67JRE	SY-PL2-115A	03/28/05		Gasoline	< 0.25 U UJ
05-5161		PID2		HC ID	---
				Trifluorotoluene	NR
				Bromobenzene	102%
HV67U	TRIP BLANK	03/25/05		Gasoline	< 0.25 U UJ
05-5172		PID2		HC ID	---
				Trifluorotoluene	84.0%
				Bromobenzene	83.3%
HV67URE	TRIP BLANK	03/28/05		Gasoline	< 0.25 U UJ
05-5172		PID2		HC ID	---
				Trifluorotoluene	31.4%
				Bromobenzene	60.5%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

5/12/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: HV67A
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.5%
Tetrachlorometaxylene	64.2%

5/4/12.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-152B
SAMPLE

Lab Sample ID: HV67B
LIMS ID: 05-5153
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:40
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.2%
Tetrachlorometaxylene	86.0%

S 4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 02:57
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	55.5%
Tetrachlorometaxylene	82.5%

4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 03:14
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	82.2%

SY.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/28/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 03:31
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	90.0%

4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 13:30
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracene	69.0%

94.1205

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 13:55
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	77.7%
d14-Dibenzo(a,h)anthracene	84.3%

4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/24/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 14:20
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	80.7%
d14-Dibenzo(a,h)anthracene	102%

S4.1205

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-152A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV67A
LIMS ID: 05-5152
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 14:17

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**2.9**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R ✓
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**1.1**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.2**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**1.1**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U ~~UJ~~ R ✓
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	104%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	99.5%

5 4/1/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-152B SAMPLE

Lab Sample ID: HV67B
LIMS ID: 05-5153
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 12:39

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.7** J✓
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ✓
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**0.2**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	102%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	118%

5/11/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-152C
SAMPLE

Lab Sample ID: HV67C
LIMS ID: 05-5154
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 14:04

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	UJ
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	Vinyl Chloride	0.2	< 0.2 U	
75-00-3	Chloroethane	0.2	< 0.2 U	
75-09-2	Methylene Chloride	0.3	< 0.3 U	
67-64-1	Acetone	1.0	< 1.0 U	R
75-15-0	Carbon Disulfide	0.2	< 0.2 U	UJ
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U	
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U	
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	Trichloroethene	0.2	< 0.2 U	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	Benzene	0.2	< 0.2 U	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U	UJ
75-25-2	Bromoform	0.2	< 0.2 U	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U	
591-78-6	2-Hexanone	1.0	< 1.0 U	
127-18-4	Tetrachloroethene	0.2	< 0.2 U	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	
108-88-3	Toluene	0.2	< 0.2 U	
108-90-7	Chlorobenzene	0.2	< 0.2 U	
100-41-4	Ethylbenzene	0.2	< 0.2 U	
100-42-5	Styrene	0.2	< 0.2 U	
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	105%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	105%

4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-601B
SAMPLE

Lab Sample ID: HV67D
LIMS ID: 05-5155
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 14:28

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**12**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.1** J
75-15-0	**Carbon Disulfide**	**0.2**	**1.7**
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	**Chloroform**	**0.2**	**0.2**
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.4**
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	105%
Bromofluorobenzene	98.8%
d4-1,2-Dichlorobenzene	111%

S4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 14:55

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**8.9**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.1** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.9**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.7**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**2.0**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	106%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	108%

94.1205
000023

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-602B**
SAMPLE

Lab Sample ID: HV67F
LIMS ID: 05-5157
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 15:22

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**9.8**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.1** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	**Chloroform**	**0.2**	**12**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	**Bromodichloromethane**	**0.2**	**0.5**
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.6**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	106%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	102%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 11:37

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**22 E**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**0.2**
75-34-3	**1,1-Dichloroethane**	**0.2**	**2.3**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**6.5**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	**2-Butanone**	**1.0**	**1.7**
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**0.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**5.6**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ R UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**0.2**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	105%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	106%

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FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-603A
DILUTION

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 12:56

Sample Amount: 10.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.4	< 0.4 U
74-83-9	Bromomethane	0.4	< 0.4 U
75-01-4	**Vinyl Chloride**	**0.4**	**24**
75-00-3	Chloroethane	0.4	< 0.4 U
75-09-2	Methylene Chloride	0.6	< 0.6 U
67-64-1	**Acetone**	**2.0**	**9.7** J
75-15-0	Carbon Disulfide	0.4	< 0.4 U
75-35-4	1,1-Dichloroethene	0.4	< 0.4 U
75-34-3	**1,1-Dichloroethane**	**0.4**	**2.6**
156-60-5	**trans-1,2-Dichloroethene**	**0.4**	**0.5**
156-59-2	**cis-1,2-Dichloroethene**	**0.4**	**7.0**
67-66-3	Chloroform	0.4	< 0.4 U
107-06-2	1,2-Dichloroethane	0.4	< 0.4 U
78-93-3	**2-Butanone**	**2.0**	**3.4**
71-55-6	1,1,1-Trichloroethane	0.4	< 0.4 U
56-23-5	Carbon Tetrachloride	0.4	< 0.4 U
108-05-4	Vinyl Acetate	0.4	< 0.4 U
75-27-4	Bromodichloromethane	0.4	< 0.4 U
78-87-5	1,2-Dichloropropane	0.4	< 0.4 U
10061-01-5	cis-1,3-Dichloropropene	0.4	< 0.4 U
79-01-6	Trichloroethene	0.4	< 0.4 U
124-48-1	Dibromochloromethane	0.4	< 0.4 U
79-00-5	1,1,2-Trichloroethane	0.4	< 0.4 U
71-43-2	**Benzene**	**0.4**	**5.7**
10061-02-6	trans-1,3-Dichloropropene	0.4	< 0.4 U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0 U ~~UJ~~
75-25-2	Bromoform	0.4	< 0.4 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2.0	< 2.0 U
591-78-6	2-Hexanone	2.0	< 2.0 U
127-18-4	Tetrachloroethene	0.4	< 0.4 U
79-34-5	1,1,2,2-Tetrachloroethane	0.4	< 0.4 U
108-88-3	Toluene	0.4	< 0.4 U
108-90-7	Chlorobenzene	0.4	< 0.4 U
100-41-4	Ethylbenzene	0.4	< 0.4 U
100-42-5	Styrene	0.4	< 0.4 U
75-69-4	Trichlorofluoromethane	0.4	< 0.4 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.4	< 0.4 U
1330-20-7	m,p-Xylene	0.8	< 0.8 U
95-47-6	o-Xylene	0.4	< 0.4 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	108%
Bromofluorobenzene	95.4%
d4-1,2-Dichlorobenzene	104%

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FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-603B
SAMPLE

Lab Sample ID: HV67H
LIMS ID: 05-5159
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 15:49

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**3.1**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**5.8** J
75-15-0	**Carbon Disulfide**	**0.2**	**0.3**
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	**Chloroform**	**0.2**	**4.2**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	99.8%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	106%

4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 16:16

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**5.2**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.3** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**0.2**
75-34-3	**1,1-Dichloroethane**	**0.2**	**1.2**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.3**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**46 E**
67-66-3	**Chloroform**	**0.2**	**0.2**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**0.7**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**74 ES**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**0.2**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	103%
Bromofluorobenzene	97.5%
d4-1,2-Dichlorobenzene	104%

4.12.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-115A
REANALYSIS

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/28/05 15:32

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**4.8**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 ~~U~~ R
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	1,1-Dichloroethene	1.0	< 1.0 U
75-34-3	**1,1-Dichloroethane**	**1.0**	**1.1**
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**49**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**110**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	Benzene	1.0	< 1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.2%
d8-Toluene	89.8%
Bromofluorobenzene	84.0%
d4-1,2-Dichlorobenzene	98.3%

4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HV67U
LIMS ID: 05-5172
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area 17505
Date Sampled: 03/09/05
Date Received: 03/15/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 16:44

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06 2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	102%
Bromofluorobenzene	94.5%
d4-1,2-Dichlorobenzene	104%

4.12.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 19:25
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ ✓
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U UJ ✓
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

5.4.12.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-602A
SAMPLE

Lab Sample ID: HV67E
LIMS ID: 05-5156
Matrix: Water
Date Analyzed: 03/23/05 19:25

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.8%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	68.0%	2-Fluorophenol	63.5%
2,4,6-Tribromophenol	62.4%	d4-2-Chlorophenol	71.7%

S4/2 05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Data Release Authorized:
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 19:57
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4/12/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-603A
SAMPLE

Lab Sample ID: HV67G
LIMS ID: 05-5158
Matrix: Water
Date Analyzed: 03/23/05 19:57

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.0%	2-Fluorobiphenyl	77.2%
d14-p-Terphenyl	85.6%	d4-1,2-Dichlorobenzene	71.6%
d5-Phenol	82.1%	2-Fluorophenol	76.8%
2,4,6-Tribromophenol	88.5%	d4-2-Chlorophenol	82.9%

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Data Release Authorized?
Reported: 03/25/05

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505
Date Sampled: 03/15/05
Date Received: 03/15/05

Date Extracted: 03/18/05
Date Analyzed: 03/23/05 20:30
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4.12.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-115A
SAMPLE

Lab Sample ID: HV67J
LIMS ID: 05-5161
Matrix: Water
Date Analyzed: 03/23/05 20:30

QC Report No: HV67-The Boeing Company
Project: P2DG-South Yard Area
17505

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.0%	2-Fluorobiphenyl	71.2%
d14-p-Terphenyl	83.6%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	73.9%	2-Fluorophenol	70.4%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	74.9%

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000049

INORGANIC DATA VALIDATION SUMMARY

PROJECT:	SITE: Fiery Pit DG South Yard
LABORATORY: ARI	SDG: HV88
SAMPLES/MATRIX/ANALYSES: Water - total + diss metals, Hg, Gen Chem	

54-PL2-110C-F 117A-F	54-PL2-110C 117A
112A-F 912A-F	112A 912A
112B-F 113A-F	112B 113A
116A-F	116A

DATA ASSESSMENT SUMMARY

REVIEW ITEM	ICP	AA	Brooks Rand HG	CYANIDE	Gen Chem OTHER
1. Data completeness	O		O		O
2. Holding Times	O		O		O
3. Calibration	O		O		O
4. Blanks	O		O		O
5. ICS	O		—		—
6. LCS	O		OPR O		SRM O
7. Duplicate RPD	O		—		O
8. Spike Recovery	O		O		O
9. MSA	—		—		—
10. Other QC	O		—		—
11. Field Duplicates	—		—		—
12. Result Verification	O		O		O
13. Overall Assessment	O		O		O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results:

Validated by: Christin Duran Date: 4.13.05

Reviewed by: [signature] Date: 4/26/05

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data package completeness (check if present)	✓	

✓ Case narrative
✓ Chain of custody
✓ Sample Results
✓ ICV/CCV Results
✓ Blank Results
✓ ICP Interference Check Results
✓ Spike Recovery Results
✓ Duplicate Results
✓ LCS Results
✓ Standard Addition Results
✓ ICP Serial Dilution

✓ Instrument Det. Limits
✓ ICP Correction Factors
✓ ICP Linear Ranges
✓ Preparation Logs
✓ Analysis Run Logs
✓ ICP Raw Data
__ GFAA Raw Data
✓ Hg Raw Data
__ Cyanide Raw Data
__ Other_____

Comments/Qualified Results:_____

2. Holding times (check all that apply)	✓	

✓ ICP/GFAA metals completed in <6 mos from collection
✓ Mercury analyzed in < 28 days from collection
__ Cyanide completed in 14 days from collection

Comments/Qualified Results:_____

3. Calibrations (check all that apply)	✓	

✓ ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
__ ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
__ ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
✓ ICV/CCV %R 90-120 for Hg, results acceptable
__ ICV/CCV %R for Hg, 65%-78% or 121%-135%, results estimated (J/UJ)
__ ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
__ ICV/CCV %R 85-115 for Cyanide, results acceptable
__ ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
__ ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:_____

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
4. Blanks (check all that apply)	✓	

__Detects reported in ICB/CCB, list:

__Detects in preparation blanks, list:

__Detects in field blanks, list:

Qualify as undetected (U) all sample concentrations ≤5X any associated blank concentrations.

Comments/Qualified Results: Al CCBM @ .6 µg/L (3) 5X 'U' total SYPLZ-112A, Total 912A Total 112B, 113A

5. Interference Checks (check all that apply) . . . . . ✓ __

✓ ICS A/B Recoveries Acceptable
__Al, Ca, Fe, Mg sample concentrations >ICS concentrations
__ICS %R >120%, results >IDL estimated (J)
__ICS %R 50-79%, results >IDL estimated (J)
__ICS %R 50-79%, results <IDL estimated (UJ)
__ICS %R <50%, results >IDL and <IDL rejected (R/UR)

Comments/Qualified Results:

6. Laboratory Control Samples (check all that apply) . . . . . ✓ __

✓ LCS %R 80-120
__LCS %R 50-79% or >120%, results >IDL estimated (J)
__LCS %R 50-79% and results <IDL estimated (UJ)
__LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results:

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
7. Duplicate (check all that apply)	✓	

✓ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
__ Duplicate range is within ±CRDL (±2xCRDL for soils) for results <5X CRDL

Comments/Qualified Results:

	Acceptable Yes	No
8. Spike Recovery (check all that apply)	✓	

✓ Spike %R with 75-125%
__ Spike %R 30-74%, >125%, results >IDL estimated (J)
__ Spike %R 30-74% results <IDL estimated (UJ)
__ Spike %R <30%, results <IDL rejected (UR)
__ Field blank used for spike analysis

Comments/Qualified Results: LLS/LCSD NW; ok.

	Acceptable Yes	No
9. GFAA Performance		e

__ Duplicate injection RSD <20%
__ Duplicate injection RSD >20%, results >CRDL estimated (J)
__ Analytical spike %R 85-115%
__ Analytical spike %R 40-85%, results >IDL estimated (J)
__ Analytical spike %R 10-40%, results <IDL estimated (UJ)
__ Analytical spike %R <10%, results <IDL rejected (R)

Comments/Qualified Results:

NA

INORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
10. Other QC	✓	

Comments/Qualified Results: Serial Dilution - ok

11. Field Duplicates		

___ Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results: Not in this SDG

12. Result Verification	✓	

✓ All results supported in raw data

Comments/Qualified Results:

13. Overall Assessment		

Comments/Qualified Results: Waters - no recalc.
HW86A Vanadium 4 ug/L - instr reading.
$\frac{50}{50} \times .00394 = 4$ ug/L

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report #05BR0415

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0415

ARI Client: The Boeing Company
ARI Project ID: HV86

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-110C	05BR0415 - 1	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-117A	05BR0415 - 2	3/22/2005	3/25/2005	05-0161	33.200	ng/L	
SY-PL2-112A	05BR0415 - 3	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-912A	05BR0415 - 4	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-112B	05BR0415 - 5	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-113A	05BR0415 - 6	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-116A	05BR0415 - 7	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U

4.13.05

Thursday, March 31, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for Brooks Rand Report #05BR0415

Analytical Resources Inc.

Contact: Stephanie Lucas

4611 South 134th Place
Tukwila WA 98168
Tel: 206-695-6213

Lab Project # ARI004
Lab Tracking # 05BR0415

ARI Client: The Boeing Company
ARI Project ID: HV86

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SY-PL2-110C-F	05BR0415 - 8	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-117A-F	05BR0415 - 9	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-112A-F	05BR0415 - 10	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-912A-F	05BR0415 - 11	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-112B-F	05BR0415 - 12	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-113A-F	05BR0415 - 13	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U
SY-PL2-116A-F	05BR0415 - 14	3/22/2005	3/25/2005	05-0161	25.000	ng/L	U

4.13.05

Thursday, March 31, 2005

Elizabeth Madonick
Project Manager

SAMPLE RESULTS-CONVENTIONALS
HV86-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [illegible]
Reported: 03/23/05

Project: P2DG-South Yard Area
Event: 17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Client ID: SY-PL2-117A
ARI ID: 05-5282 HV86B

Analyte	Date Batch	Method	Units	RL	Sample
Redox Potential	03/16/05	SM 2580	mv	0.1	45.0
N-Ammonia	03/22/05 032205#1	EPA 350.1M	mg-N/L	0.100	3.73
N-Nitrate	03/16/05	Calculated	mg-N/L	0.500	< 0.500 U
N-Nitrite	03/16/05 031605#2	EPA 353.2	mg-N/L	0.500	< 0.500 U
Nitrate + Nitrite (NO3+NO2)	03/16/05 031605#3	EPA 353.2	mg-N/L	0.500	< 0.500 U
Sulfate	03/19/05 031905#2	EPA 375.2	mg/L	2.0	39.1
Sulfide	03/17/05 031705#1	EPA 376.2	mg/L	0.05	< 0.05 U
Total Organic Carbon	03/18/05 031805#1	EPA 415.1	mg/L	1.50	9.23

RL Analytical reporting limit
U Undetected at reported detection limit

4.13.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-110C
SAMPLE

Lab Sample ID: HV86A
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	2	**4**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	2	2	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	2	**5**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**4**	
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

941305

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**55.3**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	**7440-43-9**	**Cadmium**	2	**2**	
3010A	03/22/05	6010B	03/28/05	**7440-47-3**	**Chromium**	5	**160**	
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**52.4**	
200.8	03/23/05	200.8	03/29/05	**7439-92-1**	**Lead**	1	**12**	
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**27.2**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-22-4**	**Silver**	0.2	**0.2**	
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**104**	
3010A	03/22/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**215**	

U-Analyte undetected at given RL
RL-Reporting Limit

5 4/13/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**63.7**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**2.9**	
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.4**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**9**	
3010A	03/22/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**6**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.13.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-912A
SAMPLE

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**60.8**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**2.5**	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.1**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**9**	
3010A	03/22/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**7**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.13.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-112B
SAMPLE

Lab Sample ID: HV86E
LIMS ID: 05-5285
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**0.8**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**8.4**	
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**9.5**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**5**	
3010A	03/22/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**29**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.13.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**7.1**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-50-8**	**Copper**	0.5	**1.8**	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**4.3**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
3010A	03/22/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**7**	
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

94.15.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	03/22/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**22.4**	
3010A	03/22/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
3010A	03/22/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
3010A	03/22/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**0.5**	
3010A	03/22/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
3010A	03/22/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
3010A	03/22/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
3010A	03/22/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.13.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-110C-F
SAMPLE

Lab Sample ID: HV86I
LIMS ID: 05-5289
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/29/05	7440-36-0	Antimony	100	100	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	1	**6**	
6010B	03/23/05	6010B	03/29/05	7440-41-7	Beryllium	2	2	U
6010B	03/23/05	6010B	03/29/05	7440-43-9	Cadmium	4	4	U
6010B	03/23/05	6010B	03/29/05	7440-47-3	Chromium	10	10	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	2	2	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	5	5	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	2	**5**	
6010B	03/23/05	6010B	03/29/05	7782-49-2	Selenium	100	100	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	1	1	U
6010B	03/23/05	6010B	03/29/05	7440-28-0	Thallium	100	100	U
6010B	03/23/05	6010B	03/29/05	7440-62-2	Vanadium	6	6	U
6010B	03/23/05	6010B	03/29/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

5 4.13.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-117A-F
SAMPLE

Lab Sample ID: HV86J
LIMS ID: 05-5290
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**40.3**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.9**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**3**	
6010B	03/23/05	6010B	03/28/05	**7440-66-6**	**Zinc**	6	**18**	

U-Analyte undetected at given RL
RL-Reporting Limit

4.13.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: SY-PL2-112A-F
SAMPLE

Lab Sample ID: HV86K
LIMS ID: 05-5291
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	59.1	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	2.2	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	4	
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.13.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-912A-F
SAMPLE

Lab Sample ID: HV86L
LIMS ID: 05-5292
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**58.6**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**2.0**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**4**	
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4.13.05

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-112B-F
SAMPLE

Lab Sample ID: HV86M
LIMS ID: 05-5293
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**0.7**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**2.4**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
6010B	03/23/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

5 4.13.05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-113A-F
SAMPLE

Lab Sample ID: HV86N
LIMS ID: 05-5294
Matrix: Water
Data Release Authorized
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**8.9**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**3.8**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
6010B	03/23/05	6010B	03/28/05	**7440-62-2**	**Vanadium**	3	**6**	
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

4/13/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: SY-PL2-116A-F
SAMPLE

Lab Sample ID: HV860
LIMS ID: 05-5295
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
6010B	03/23/05	6010B	03/28/05	7440-36-0	Antimony	50	50	U
200.8	03/23/05	200.8	03/29/05	**7440-38-2**	**Arsenic**	0.2	**22.2**	
6010B	03/23/05	6010B	03/28/05	7440-41-7	Beryllium	1	1	U
6010B	03/23/05	6010B	03/28/05	7440-43-9	Cadmium	2	2	U
6010B	03/23/05	6010B	03/28/05	7440-47-3	Chromium	5	5	U
200.8	03/23/05	200.8	03/29/05	7440-50-8	Copper	0.5	0.5	U
200.8	03/23/05	200.8	03/29/05	7439-92-1	Lead	1	1	U
200.8	03/23/05	200.8	03/29/05	**7440-02-0**	**Nickel**	0.5	**0.6**	
6010B	03/23/05	6010B	03/28/05	7782-49-2	Selenium	50	50	U
200.8	03/23/05	200.8	03/29/05	7440-22-4	Silver	0.2	0.2	U
6010B	03/23/05	6010B	03/28/05	7440-28-0	Thallium	50	50	U
6010B	03/23/05	6010B	03/28/05	7440-62-2	Vanadium	3	3	U
6010B	03/23/05	6010B	03/28/05	7440-66-6	Zinc	6	6	U

U-Analyte undetected at given RL
RL-Reporting Limit

GH. 13.05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.:	SITE: Boeing P2 06 Southwest
LABORATORY: ARI	SDG: HV816
SAMPLES/MATRIX/ANALYSES: Water	
S4-P2-110C	S4-P2-112B
117A	113A, RE
112A, RE	116A
912A, RE	Trip Blank

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA	PEST PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	NWTPH GC G	NWTPH GC Dx
1. Data Completeness	O	O	O				O	O
2. Holding Times	O	O	O				O	O
3. GC/MS Tuning	O	O	—				—	—
4. Instrument Performance	—	—	O				O	O
5. Calibrations	O	O					O	O
6. Blanks	O	O	O				O	O
7. Surrogates	O	O	O				O	O
8. MS/MSD LCS/LCSD	O	O	O				O	O
9. Internal Standards	O	O	—				—	—
10. Compound Identification	O	O	O				O	O
11. Tent. Ident. Cmpds (TIC)	—	—	—				—	—
12. Result Verification	O	O	O				O	O
13. Detection Limits	O	O	O				O	O
14. System Performance	O	O	O				O	O
15. Overall Assessment	O	O	O				O	O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: TB not listed on COC.

Validated by: [signature] Date: 4.13.09

Reviewed by: [signature] Date: 4/24/09

ORGANIC DATA VALIDATION SUMMARY

Acceptable Yes ✓ No

1. Data Completeness (check if present) . . . . . ✓ ___

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
___ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply) . . . . . ✓ ___

✓ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: VOA pH 72 SY-PZ-110C analyzed in 9 days. (2 days past unpreserved), J/UJ all compounds.

3. GC/MS Tuning . . . . . ✓ ___

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
___ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

4. Instrument Performance . . . . . ✓ ___

___DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [If no, R detects]
✓Standard Checks within Retention Time Window [If no, check against expanded windows and if outside, qualify R/UR]
___DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

5. Initial and Continuing Calibration . . . . . ✓ ___

GC/MS Data
✓Initial calibration performed
✓Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓Continuing calibration performed
✓Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓RSD ≤10% for performance checks (if no, J detects)
✓All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) (if no, J all detects)

R 112A RE, 912A RE, 112B, 113A RE, ~~116~~ TB

J 110C, 117A, 112A, ~~113~~, 912A, 113A, 116A

Comments/Qualified Results: VOA CCAL 3/15/05 <.05 acetone

VOA CCAL 3/25/05 2Cene >25 UJ 110C, 117A, 112A, 912A, 113A, 116A
CCAL 3/25/05 ~~2Cene~~ acetone <.05 TB, 4Me2P R 110C, 117A, 112A, 912A, 113A, 116A
~~CCAL 3/28/05 2Cene >25 UJ 113A~~
~~CCAL 3/29/05 2Cene >25 UJ 112B.~~

6. Blanks . . . . . ✓ ___

___Method blanks analyzed
Common Laboratory Contaminants Detected
___Methylene chloride ___Toluene
___Acetone detected ___2-Butanone
___Phthalates detected (list or attach summary sheet)
___TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
___Other TCL compounds detected (list or attach summary sheet)
Qualify sample results <5x above as U at SQL

Comments/Qualified Results: TB-ND.

V 9:18 CCAL 3/29/05 <.05 ~~acetone~~, 2Cene R 112B
V 12:56 CCAL 3/29/05 >25 2Cene UJ 112A RE, 912A RE
8V ICAL 3/2/05 >30 4,6din-2mep UJ 117A, 117ADL, 112A, 112ADL, 113A, 116A
CCAL 3/24/05 >25 hexachl.p., 24DNP, UJ 117A, 112A, 113A, 116A
CCAL 3/28/05 >25 " " " 4nitrop, 117ADL
CCAL 3/29/05 >25 hexachl.p., 24DNP 112ADL

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates.	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

✓ Surrogates analyzed
✓ Surrogate recoveries within method control limits
__ Surrogate recoveries above method control limits (J detects only)
__ Surrogate recoveries below method control limits but ≥10% (J/UJ)
__ Surrogate recoveries below 10% (J/UR)

	Acceptable Yes	Acceptable No
8. Matrix Spike/Matrix Spike Duplicate		

✓ MS/MSD analyzed 8VOA: LCS/LCSD.
✓ MS/MSD recoveries within method control limits
__ MS/MSD recoveries above method control limits (J detects only)
__ MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__ MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: 2CEVE MS/MSD not recovered - lab notes spike was diluted, no action for sample 84-PL2-117A - 2CEVE not recovered. UJ for 2Cele for sample. 2CEVE LCS/LCSD + UJ for -110C, 117A, 112A, 912A, 113A, 116A

	Acceptable Yes	Acceptable No
9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__ Internal standard areas outside control limits but greater than 10% (J/UJ)
__ Internal standard areas are zero or less than 10% (J/UR)
__ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results: SIM IS1 (naphthalene-d8) Area obscured by target 8270 Compound. UJ 117A, 102A + DL's for naph + 2methylnaph.
in original 9 in DL's
MM

	Acceptable Yes	Acceptable No
10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
__ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
✓ Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
✓ Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected (CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexane derivatives, alcols or hydroxy ketones and hydroxy aldehydes))
___Qualify valid TICs as JN

Comments/Qualified Results: NA

12. Result Verification . . . . . ✓ ___

✓All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits . . . . . ✓ ___

✓Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results: Sam 34-PL2-117A & 34-PL2-112A
naph. 100X & dil. 2 methylnaph & due to large
concn. of 4-chloro-3methylphenol.

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

VOA recalc VC 7.4 ug/L.

$\frac{129876 \times 4 \cdot 0}{77276 \times .8333} = 8$ ok

8270A recalc HV8606 phenol 3.2 3/24/05

$\frac{62479 \times \cancel{500} \times 2}{333345 \times 2.1586} = 3.4$ ok.

8270M - all ND - no recalc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

Data Release Authorized:
Reported: 04/01/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-032905	Method Blank	03/29/05		Gasoline	< 0.25 U
05-5282		PID2		HC ID	---
				Trifluorotoluene	95.1%
				Bromobenzene	91.2%
HV86B	SY-PL2-117A	03/29/05		Gasoline	< 0.25 U
05-5282		PID2		HC ID	---
				Trifluorotoluene	107%
				Bromobenzene	104%
HV86C	SY-PL2-112A	03/29/05		Gasoline	< 0.25 U
05-5283		PID2		HC ID	---
				Trifluorotoluene	112%
				Bromobenzene	108%
HV86D	SY-PL2-912A	03/29/05		Gasoline	< 0.25 U
05-5284		PID2		HC ID	---
				Trifluorotoluene	108%
				Bromobenzene	106%
HV86F	SY-PL2-113A	03/29/05		Gasoline	< 0.25 U
05-5286		PID2		HC ID	---
				Trifluorotoluene	114%
				Bromobenzene	105%
HV86G	SY-PL2-116A	03/29/05		Gasoline	< 0.25 U
05-5287		PID2		HC ID	---
				Trifluorotoluene	104%
				Bromobenzene	98.8%
HV86H	TRIP BLANK	03/29/05		Gasoline	< 0.25 U
05-5288		PID2		HC ID	---
				Trifluorotoluene	106%
				Bromobenzene	97.7%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Received: 03/16/05

Data Release Authorized:
Reported: 03/24/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-032105	Method Blank	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5282	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	80.0%
HV86B	SY-PL2-117A	03/21/05	03/22/05	1.0	**Diesel**	**0.38**
05-5282	HC ID: **DRO**		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	81.6%
HV86C	SY-PL2-112A	03/21/05	03/22/05	1.0	**Diesel**	**9.8 E**
05-5283	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**1.3**
					o-Terphenyl	84.4%
HV86C DL	SY-PL2-112A	03/21/05	03/23/05	5.0	**Diesel**	**8.9**
05-5283	HC ID: **DRO**		FID3A		Motor Oil	< 2.5 U
					o-Terphenyl	83.4%
HV86D	SY-PL2-912A	03/21/05	03/22/05	1.0	**Diesel**	**9.2 E**
05-5284	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**1.2**
					o-Terphenyl	86.9%
HV86D DL	SY-PL2-912A	03/21/05	03/23/05	5.0	**Diesel**	**8.3**
05-5284	HC ID: **DRO**		FID3A		Motor Oil	< 2.5 U
					o-Terphenyl	84.9%
HV86F	SY-PL2-113A	03/21/05	03/22/05	1.0	**Diesel**	**0.28**
05-5286	HC ID: **DRO**		FID3A		Not Entered	< 0.50 U
					o-Terphenyl	67.3%
HV86G	SY-PL2-116A	03/21/05	03/22/05	1.0	Diesel	< 0.25 U
05-5287	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	90.0%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 14:14
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	96.8%

4.13.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 14:31
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.5%
Tetrachlorometaxylene	88.2%

4/1/05
000075

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 14:48
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	124%
Tetrachlorometaxylene	83.5%

4.4.13.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 04/04/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/21/05
Date Analyzed: 04/01/05 15:05
Instrument/Analyst: ECD5/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.2%
Tetrachlorometaxylene	82.2%

94.13.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 16:09
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	1.3	< 1.3 Y UJ ✓
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	76.7%
d14-Dibenzo(a,h)anthracene	40.0%

4/13/05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-117A
DILUTION

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/28/05 12:40
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 100

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	10	< 10 U
91-57-6	2-Methylnaphthalene	110	< 110 Y UJ
208-96-8	Acenaphthylene	10	< 10 U
83-32-9	Acenaphthene	10	< 10 U
86-73-7	Fluorene	10	< 10 U
85-01-8	Phenanthrene	10	< 10 U
120-12-7	Anthracene	10	< 10 U
206-44-0	Fluoranthene	10	< 10 U
129-00-0	Pyrene	10	< 10 U
56-55-3	Benzo(a)anthracene	10	< 10 U
218-01-9	Chrysene	10	< 10 U
205-99-2	Benzo(b)fluoranthene	10	< 10 U
207-08-9	Benzo(k)fluoranthene	10	< 10 U
50-32-8	Benzo(a)pyrene	10	< 10 U
193-39-5	Indeno(1,2,3-cd)pyrene	10	< 10 U
53-70-3	Dibenz(a,h)anthracene	10	< 10 U
191-24-2	Benzo(g,h,i)perylene	10	< 10 U
132-64-9	Dibenzofuran	10	< 10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracene	D

9.4.13.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 16:35
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 10.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	2.0	< 2.0 Y UJ
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	90.0%
d14-Dibenzo(a,h)anthracene	36.7%

S 4.13.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-112A
DILUTION

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/28/05 13:05
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 100

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	10	< 10 U
91-57-6	2-Methylnaphthalene	130	< 130 Y UJ
208-96-8	Acenaphthylene	10	< 10 U
83-32-9	Acenaphthene	10	< 10 U
86-73-7	Fluorene	10	< 10 U
85-01-8	Phenanthrene	10	< 10 U
120-12-7	Anthracene	10	< 10 U
206-44-0	Fluoranthene	10	< 10 U
129-00-0	Pyrene	10	< 10 U
56-55-3	Benzo(a)anthracene	10	< 10 U
218-01-9	Chrysene	10	< 10 U
205-99-2	Benzo(b)fluoranthene	10	< 10 U
207-08-9	Benzo(k)fluoranthene	10	< 10 U
50-32-8	Benzo(a)pyrene	10	< 10 U
193-39-5	Indeno(1,2,3-cd)pyrene	10	< 10 U
53-70-3	Dibenz(a,h)anthracene	10	< 10 U
191-24-2	Benzo(g,h,i)perylene	10	< 10 U
132-64-9	Dibenzofuran	10	< 10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracene	D

94.13 05
000067

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 14:34
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracene	58.7%

4.13.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 03/29/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 14:59
Instrument/Analyst: NT1/YZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	65.7%
d14-Dibenzo(a,h)anthracene	79.7%

54.1305
000069

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 17:04
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**1.0**	**3.2**
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	**2-Methylphenol**	**1.0**	**3.6**
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	**4-Methylphenol**	**1.0**	**32**
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	**2,4-Dimethylphenol**	**1.0**	**77**
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	**4-Chloro-3-methylphenol**	**5.0**	**1,000 E**
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

5/4/13/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
SAMPLE

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Date Analyzed: 03/24/05 17:04

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.4%	2-Fluorobiphenyl	64.8%
d14-p-Terphenyl	49.6%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	68.3%	2-Fluorophenol	61.1%
2,4,6-Tribromophenol	77.9%	d4-2-Chlorophenol	70.4%

5/4/13-05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
DILUTION

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/28/05 21:17
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 30.0

CAS Number	Analyte	RL	Result
108-95-2	Phenol	30	< 30 U
111-44-4	Bis-(2-Chloroethyl) Ether	30	< 30 U
95-57-8	2-Chlorophenol	30	< 30 U
541-73-1	1,3-Dichlorobenzene	30	< 30 U
106-46-7	1,4-Dichlorobenzene	30	< 30 U
100-51-6	Benzyl Alcohol	150	< 150 U
95-50-1	1,2-Dichlorobenzene	30	< 30 U
95-48-7	2-Methylphenol	30	< 30 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	30	< 30 U
106-44-5	4-Methylphenol	30	< 30 U
621-64-7	N-Nitroso-Di-N-Propylamine	150	< 150 U
67-72-1	Hexachloroethane	30	< 30 U
98-95-3	Nitrobenzene	30	< 30 U
78-59-1	Isophorone	30	< 30 U
88-75-5	2-Nitrophenol	150	< 150 U
105-67-9	**2,4-Dimethylphenol**	**30**	**70**
65-85-0	Benzoic Acid	300	< 300 U
111-91-1	bis(2-Chloroethoxy) Methane	30	< 30 U
120-83-2	2,4-Dichlorophenol	150	< 150 U
120-82-1	1,2,4-Trichlorobenzene	30	< 30 U
91-20-3	Naphthalene	30	< 30 U
106-47-8	4-Chloroaniline	150	< 150 U
87-68-3	Hexachlorobutadiene	30	< 30 U
59-50-7	**4-Chloro-3-methylphenol**	**150**	**1,600**
91-57-6	2-Methylnaphthalene	30	< 30 U
77-47-4	Hexachlorocyclopentadiene	150	< 150 ~~U~~ UJ
88-06-2	2,4,6-Trichlorophenol	150	< 150 U
95-95-4	2,4,5-Trichlorophenol	150	< 150 U
91-58-7	2-Chloronaphthalene	30	< 30 U
88-74-4	2-Nitroaniline	150	< 150 U
131-11-3	Dimethylphthalate	30	< 30 U
208-96-8	Acenaphthylene	30	< 30 U
99-09-2	3-Nitroaniline	150	< 150 U
83-32-9	Acenaphthene	30	< 30 U
51-28-5	2,4-Dinitrophenol	300	< 300 ~~U~~ UJ
100-02-7	4-Nitrophenol	150	< 150 ~~U~~ UJ
132-64-9	Dibenzofuran	30	< 30 U
606-20-2	2,6-Dinitrotoluene	150	< 150 U
121-14-2	2,4-Dinitrotoluene	150	< 150 U
84-66-2	Diethylphthalate	30	< 30 U

SY 4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-117A
DILUTION

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Date Analyzed: 03/28/05 21:17

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	30	< 30 U
86-73-7	Fluorene	30	< 30 U
100-01-6	4-Nitroaniline	150	< 150 U
534-52-1	4,6-Dinitro-2-Methylphenol	300	< 300 U UJ
86-30-6	N-Nitrosodiphenylamine	30	< 30 U
101-55-3	4-Bromophenyl-phenylether	30	< 30 U
118-74-1	Hexachlorobenzene	30	< 30 U
87-86-5	Pentachlorophenol	150	< 150 U
85-01-8	Phenanthrene	30	< 30 U
86-74-8	Carbazole	30	< 30 U
120-12-7	Anthracene	30	< 30 U
84-74-2	Di-n-Butylphthalate	30	< 30 U
206-44-0	Fluoranthene	30	< 30 U
129-00-0	Pyrene	30	< 30 U
85-68-7	Butylbenzylphthalate	30	< 30 U
91-94-1	3,3'-Dichlorobenzidine	150	< 150 U
56-55-3	Benzo(a)anthracene	30	< 30 U
117-81-7	bis(2-Ethylhexyl)phthalate	30	< 30 U
218-01-9	Chrysene	30	< 30 U
117-84-0	Di-n-Octyl phthalate	30	< 30 U
205-99-2	Benzo(b)fluoranthene	30	< 30 U
207-08-9	Benzo(k)fluoranthene	30	< 30 U
50-32-8	Benzo(a)pyrene	30	< 30 U
193-39-5	Indeno(1,2,3-cd)pyrene	30	< 30 U
53-70-3	Dibenz(a,h)anthracene	30	< 30 U
191-24-2	Benzo(g,h,i)perylene	30	< 30 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	D	2-Fluorobiphenyl	D
d14-p-Terphenyl	D	d4-1,2-Dichlorobenzene	D
d5-Phenol	D	2-Fluorophenol	D
2,4,6-Tribromophenol	D	d4-2-Chlorophenol	D

4/13/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P20G-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 17:37
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	**2-Methylphenol**	**1.0**	**4.2**
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	**4-Methylphenol**	**1.0**	**35**
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	**2,4-Dimethylphenol**	**1.0**	**100 E**
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	**Naphthalene**	**1.0**	**1.4**
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	**4-Chloro-3-methylphenol**	**5.0**	**1,500 E**
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 ~~U~~ UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 ~~U~~ UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Date Analyzed: 03/24/05 17:37

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ ✓
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**5.3**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.0%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	56.8%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	69.9%	2-Fluorophenol	67.7%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	73.1%

Gilbert

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
DILUTION

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/29/05 13:04
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 60.0

CAS Number	Analyte	RL	Result
108-95-2	Phenol	60	< 60 U
111-44-4	Bis-(2-Chloroethyl) Ether	60	< 60 U
95-57-8	2-Chlorophenol	60	< 60 U
541-73-1	1,3-Dichlorobenzene	60	< 60 U
106-46-7	1,4-Dichlorobenzene	60	< 60 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	60	< 60 U
95-48-7	2-Methylphenol	60	< 60 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	60	< 60 U
106-44-5	4-Methylphenol	60	< 60 U
621-64-7	N-Nitroso-Di-N-Propylamine	300	< 300 U
67-72-1	Hexachloroethane	60	< 60 U
98-95-3	Nitrobenzene	60	< 60 U
78-59-1	Isophorone	60	< 60 U
88-75-5	2-Nitrophenol	300	< 300 U
105-67-9	**2,4-Dimethylphenol**	**60**	**97**
65-85-0	Benzoic Acid	600	< 600 U
111-91-1	bis(2-Chloroethoxy) Methane	60	< 60 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	60	< 60 U
91-20-3	Naphthalene	60	< 60 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	60	< 60 U
59-50-7	**4-Chloro-3-methylphenol**	**300**	**2,500**
91-57-6	2-Methylnaphthalene	60	< 60 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 UJ
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	60	< 60 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	60	< 60 U
208-96-8	Acenaphthylene	60	< 60 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	60	< 60 U
51-28-5	2,4-Dinitrophenol	600	< 600 UJ
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	60	< 60 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	60	< 60 U

4/13/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-112A
DILUTION

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Date Analyzed: 03/29/05 13:04

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	60	< 60 U
86-73-7	Fluorene	60	< 60 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600	< 600 U UJ
86-30-6	N-Nitrosodiphenylamine	60	< 60 U
101-55-3	4-Bromophenyl-phenylether	60	< 60 U
118-74-1	Hexachlorobenzene	60	< 60 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	60	< 60 U
86-74-8	Carbazole	60	< 60 U
120-12-7	Anthracene	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
206-44-0	Fluoranthene	60	< 60 U
129-00-0	Pyrene	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	60	< 60 U
117-81-7	bis(2-Ethylhexyl)phthalate	60	< 60 U
218-01-9	Chrysene	60	< 60 U
117-84-0	Di-n-Octyl phthalate	60	< 60 U
205-99-2	Benzo(b)fluoranthene	60	< 60 U
207-08-9	Benzo(k)fluoranthene	60	< 60 U
50-32-8	Benzo(a)pyrene	60	< 60 U
193-39-5	Indeno(1,2,3-cd)pyrene	60	< 60 U
53-70-3	Dibenz(a,h)anthracene	60	< 60 U
191-24-2	Benzo(g,h,i)perylene	60	< 60 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	D	2-Fluorobiphenyl	D
d14-p-Terphenyl	D	d4-1,2-Dichlorobenzene	D
d5-Phenol	D	2-Fluorophenol	D
2,4,6-Tribromophenol	D	d4-2-Chlorophenol	D

4/13/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 18:10
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Date Analyzed: 03/24/05 18:10

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	71.6%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	71.6%	d4-1,2-Dichlorobenzene	63.2%
d5-Phenol	62.1%	2-Fluorophenol	62.7%
2,4,6-Tribromophenol	81.3%	d4-2-Chlorophenol	69.3%

SY 4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 03/31/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Date Extracted: 03/22/05
Date Analyzed: 03/24/05 18:43
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 ~~U~~ UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 ~~U~~ UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

4/13/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Date Analyzed: 03/24/05 18:43

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U UJ
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	78.0%	d4-1,2-Dichlorobenzene	53.6%
d5-Phenol	54.9%	2-Fluorophenol	54.7%
2,4,6-Tribromophenol	76.5%	d4-2-Chlorophenol	61.1%

4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-110C
SAMPLE

Lab Sample ID: HV86A
LIMS ID: 05-5281
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 17:38

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result	
74-87-3	Chloromethane	0.2	< 0.2 U	UJ
74-83-9	Bromomethane	0.2	< 0.2 U	
75-01-4	Vinyl Chloride	0.2	< 0.2 U	
75-00-3	Chloroethane	0.2	< 0.2 U	
75-09-2	Methylene Chloride	0.3	< 0.3 U	
67-64-1	**Acetone**	**1.0**	**2.6**	J
75-15-0	Carbon Disulfide	0.2	< 0.2 U	UJ
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U	
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U	
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U	
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U	
67-66-3	Chloroform	0.2	< 0.2 U	
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U	
78-93-3	2-Butanone	1.0	< 1.0 U	
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U	
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U	
108-05-4	Vinyl Acetate	0.2	< 0.2 U	
75-27-4	Bromodichloromethane	0.2	< 0.2 U	
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U	
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U	
79-01-6	Trichloroethene	0.2	< 0.2 U	
124-48-1	Dibromochloromethane	0.2	< 0.2 U	
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U	
71-43-2	Benzene	0.2	< 0.2 U	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U	
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U	
75-25-2	Bromoform	0.2	< 0.2 U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U	R
591-78-6	2-Hexanone	1.0	< 1.0 U	UJ
127-18-4	Tetrachloroethene	0.2	< 0.2 U	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U	
108-88-3	Toluene	0.2	< 0.2 U	
108-90-7	Chlorobenzene	0.2	< 0.2 U	
100-41-4	**Ethylbenzene**	**0.2**	**0.2**	tr J
100-42-5	Styrene	0.2	< 0.2 U	UJ
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U	
1330-20-7	m,p-Xylene	0.4	< 0.4 U	
95-47-6	o-Xylene	0.2	< 0.2 U	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	108%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	110%

4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-117A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HV86B
LIMS ID: 05-5282
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 18:05

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**4.3**
75-00-3	**Chloroethane**	**0.2**	**0.4**
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.1** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**13**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**4.9**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**1.0**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**2.4**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	102%
Bromofluorobenzene	93.2%
d4-1,2-Dichlorobenzene	110%

G 4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-112A
SAMPLE

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 18:32

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**7.4**
75-00-3	**Chloroethane**	**0.2**	**320 ES**
75-09-2	**Methylene Chloride**	**0.3**	**0.3**
67-64-1	**Acetone**	**1.0**	**13** J✓
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**1.9**
75-34-3	**1,1-Dichloroethane**	**0.2**	**46 ES**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.8**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**15**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.6**
78-93-3	**2-Butanone**	**1.0**	**8.4**
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**1.3**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**2.6**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**1.0**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ✓
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	**4-Methyl-2-Pentanone (MIBK)**	**1.0**	**1.3** J✓
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**3.8**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**22 E**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	**Ethylbenzene**	**0.2**	**1.0**
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroe**	**0.2**	**2.2**
1330-20-7	**m,p-Xylene**	**0.4**	**3.8**
95-47-6	**o-Xylene**	**0.2**	**1.8**

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	104%
Bromofluorobenzene	110%
d4-1,2-Dichlorobenzene	104%

4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-112A**
Page 1 of 1 **REANALYSIS**

Lab Sample ID: HV86C
LIMS ID: 05-5283
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/29/05 15:34

Sample Amount: 0.50 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	10	< 10 U
74-83-9	Bromomethane	10	< 10 U
75-01-4	Vinyl Chloride	10	< 10 U
75-00-3	**Chloroethane**	**10**	**590**
75-09-2	Methylene Chloride	20	< 20 U
67-64-1	Acetone	50	< 50 U ~~UJ~~ R
75-15-0	Carbon Disulfide	10	< 10 U
75-35-4	1,1-Dichloroethene	10	< 10 U
75-34-3	**1,1-Dichloroethane**	**10**	**66**
156-60-5	trans-1,2-Dichloroethene	10	< 10 U
156-59-2	**cis-1,2-Dichloroethene**	**10**	**12**
67-66-3	Chloroform	10	< 10 U
107-06-2	1,2-Dichloroethane	10	< 10 U
78-93-3	2-Butanone	50	< 50 U
71-55-6	1,1,1-Trichloroethane	10	< 10 U
56-23-5	Carbon Tetrachloride	10	< 10 U
108-05-4	Vinyl Acetate	50	< 50 U
75-27-4	Bromodichloromethane	10	< 10 U
78-87-5	1,2-Dichloropropane	10	< 10 U
10061-01-5	cis-1,3-Dichloropropene	10	< 10 U
79-01-6	Trichloroethene	10	< 10 U
124-48-1	Dibromochloromethane	10	< 10 U
79-00-5	1,1,2-Trichloroethane	10	< 10 U
71-43-2	Benzene	10	< 10 U
10061-02-6	trans-1,3-Dichloropropene	10	< 10 U
110-75-8	2-Chloroethylvinylether	50	< 50 ~~U~~ UJ
75-25-2	Bromoform	10	< 10 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50	< 50 U
591-78-6	2-Hexanone	50	< 50 U
127-18-4	Tetrachloroethene	10	< 10 U
79-34-5	1,1,2,2-Tetrachloroethane	10	< 10 U
108-88-3	**Toluene**	**10**	**18**
108-90-7	Chlorobenzene	10	< 10 U
100-41-4	Ethylbenzene	10	< 10 U
100-42-5	Styrene	10	< 10 U
75-69-4	Trichlorofluoromethane	10	< 10 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	< 20 U
1330-20-7	m,p-Xylene	10	< 10 U
95-47-6	o-Xylene	10	< 10 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.9%
d8-Toluene	88.1%
Bromofluorobenzene	82.3%
d4-1,2-Dichlorobenzene	94.2%

941305

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-912A
SAMPLE

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 19:00

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**7.0**
75-00-3	**Chloroethane**	**0.2**	**300 ES**
75-09-2	**Methylene Chloride**	**0.3**	**0.3**
67-64-1	**Acetone**	**1.0**	**9.6** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**1.7**
75-34-3	**1,1-Dichloroethane**	**0.2**	**44 ES**
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.8**
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1J**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	**1,2-Dichloroethane**	**0.2**	**0.6**
78-93-3	**2-Butanone**	**1.0**	**7.2**
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**1.3**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**2.6**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**1.1**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	**4-Methyl-2-Pentanone (MIBK)**	**1.0**	**1.1** J
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**3.4**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**22 E**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	**Ethylbenzene**	**0.2**	**1.0**
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroe**	**0.2**	**2.3**
1330-20-7	**m,p-Xylene**	**0.4**	**3.7**
95-47-6	**o-Xylene**	**0.2**	**1.7**

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	104%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	104%

4.13DT

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-912A**
Page 1 of 1 **REANALYSIS**

Lab Sample ID: HV86D
LIMS ID: 05-5284
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/29/05 16:00

Sample Amount: 0.50 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	10	< 10 U
74-83-9	Bromomethane	10	< 10 U
75-01-4	Vinyl Chloride	10	< 10 U
75-00-3	**Chloroethane**	**10**	**620**
75-09-2	Methylene Chloride	20	< 20 U
67-64-1	Acetone	50	< 50 ~~U~~R
75-15-0	Carbon Disulfide	10	< 10 U
75-35-4	1,1-Dichloroethene	10	< 10 U
75-34-3	**1,1-Dichloroethane**	**10**	**67**
156-60-5	trans-1,2-Dichloroethene	10	< 10 U
156-59-2	**cis-1,2-Dichloroethene**	**10**	**13**
67-66-3	Chloroform	10	< 10 U
107-06-2	1,2-Dichloroethane	10	< 10 U
78-93-3	2-Butanone	50	< 50 U
71-55-6	1,1,1-Trichloroethane	10	< 10 U
56-23-5	Carbon Tetrachloride	10	< 10 U
108-05-4	Vinyl Acetate	50	< 50 U
75-27-4	Bromodichloromethane	10	< 10 U
78-87-5	1,2-Dichloropropane	10	< 10 U
10061-01-5	cis-1,3-Dichloropropene	10	< 10 U
79-01-6	Trichloroethene	10	< 10 U
124-48-1	Dibromochloromethane	10	< 10 U
79-00-5	1,1,2-Trichloroethane	10	< 10 U
71-43-2	Benzene	10	< 10 U
10061-02-6	trans-1,3-Dichloropropene	10	< 10 U
110-75-8	2-Chloroethylvinylether	50	< 50 ~~U~~UJ
75-25-2	Bromoform	10	< 10 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50	< 50 U
591-78-6	2-Hexanone	50	< 50 U
127-18-4	Tetrachloroethene	10	< 10 U
79-34-5	1,1,2,2-Tetrachloroethane	10	< 10 U
108-88-3	**Toluene**	**10**	**18**
108-90-7	Chlorobenzene	10	< 10 U
100-41-4	Ethylbenzene	10	< 10 U
100-42-5	Styrene	10	< 10 U
75-69-4	Trichlorofluoromethane	10	< 10 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	< 20 U
1330-20-7	m,p-Xylene	10	< 10 U
95-47-6	o-Xylene	10	< 10 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.4%
d8-Toluene	88.7%
Bromofluorobenzene	83.5%
d4-1,2-Dichlorobenzene	97.7%

SY.1305

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-112B
SAMPLE

Lab Sample ID: HV86E
LIMS ID: 05-5285
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/29/05 11:35

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 ~~U~~ R
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 ~~U~~ UJ R
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	119%
d8-Toluene	95.8%
Bromofluorobenzene	90.5%
d4-1,2-Dichlorobenzene	99.0%

GJ 4/13/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: SY-PL2-113A
SAMPLE

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 19:54

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**5.3**
75-00-3	**Chloroethane**	**0.2**	**0.5**
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.1** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	**1,1-Dichloroethene**	**0.2**	**1.3**
75-34-3	**1,1-Dichloroethane**	**0.2**	**30 E**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**3.9**
67-66-3	**Chloroform**	**0.2**	**0.2**
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**0.3**
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	**Trichloroethene**	**0.2**	**17 E**
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	**Benzene**	**0.2**	**5.3**
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	**Tetrachloroethene**	**0.2**	**1.2**
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroe**	**0.2**	**0.3**
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	98.8%
Bromofluorobenzene	92.8%
d4-1,2-Dichlorobenzene	104%

4.13.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: SY-PL2-113A**
Page 1 of 1 **REANALYSIS**

Lab Sample ID: HV86F
LIMS ID: 05-5286
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: NT3/PAB
Date Analyzed: 03/28/05 16:51

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	1.0	< 1.0 U
74-83-9	Bromomethane	1.0	< 1.0 U
75-01-4	**Vinyl Chloride**	**1.0**	**5.1**
75-00-3	Chloroethane	1.0	< 1.0 U
75-09-2	Methylene Chloride	2.0	< 2.0 U
67-64-1	Acetone	5.0	< 5.0 UR
75-15-0	Carbon Disulfide	1.0	< 1.0 U
75-35-4	**1,1-Dichloroethene**	**1.0**	**1.1**
75-34-3	**1,1-Dichloroethane**	**1.0**	**32**
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0 U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**3.7**
67-66-3	Chloroform	1.0	< 1.0 U
107-06-2	1,2-Dichloroethane	1.0	< 1.0 U
78-93-3	2-Butanone	5.0	< 5.0 U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0 U
56-23-5	Carbon Tetrachloride	1.0	< 1.0 U
108-05-4	Vinyl Acetate	5.0	< 5.0 U
75-27-4	Bromodichloromethane	1.0	< 1.0 U
78-87-5	1,2-Dichloropropane	1.0	< 1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0 U
79-01-6	**Trichloroethene**	**1.0**	**13**
124-48-1	Dibromochloromethane	1.0	< 1.0 U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0 U
71-43-2	**Benzene**	**1.0**	**4.6**
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0 U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0 U
75-25-2	Bromoform	1.0	< 1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0 U
591-78-6	2-Hexanone	5.0	< 5.0 U
127-18-4	Tetrachloroethene	1.0	< 1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
108-90-7	Chlorobenzene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
100-42-5	Styrene	1.0	< 1.0 U
75-69-4	Trichlorofluoromethane	1.0	< 1.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0 U
1330-20-7	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.7%
d8-Toluene	89.3%
Bromofluorobenzene	84.2%
d4-1,2-Dichlorobenzene	96.5%

94/13.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B
Page 1 of 1

Sample ID: SY-PL2-116A
SAMPLE

Lab Sample ID: HV86G
LIMS ID: 05-5287
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 03/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 20:21

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	**Vinyl Chloride**	**0.2**	**2.8**
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.6** J
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	**1,1-Dichloroethane**	**0.2**	**0.6**
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.5**
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U UJ
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 ~~U~~ R
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	102%
Bromofluorobenzene	92.2%
d4-1,2-Dichlorobenzene	106%

5/13/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: HV86H
LIMS ID: 05-5288
Matrix: Water
Data Release Authorized:
Reported: 03/30/05

QC Report No: HV86-The Boeing Company
Project: P2DG-South Yard Area
17505.0
Date Sampled: 02/16/05
Date Received: 03/16/05

Instrument/Analyst: FINN3/PAB
Date Analyzed: 03/25/05 17:11

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-01-4	Vinyl Chloride	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 UR
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	111%
Bromofluorobenzene	90.2%
d4-1,2-Dichlorobenzene	109%

5413.08
000033

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Collected 5/20/05

ORGANIC DATA VALIDATION SUMMARY

PROJECT NO.: 013-1646.002.300	SITE: PZDG Southwynd Pkwy
LABORATORY: ATI	SDG: JC01

SAMPLES/MATRIX/ANALYSES:

SY-DP-1119	SY-PLZ-152A
SY-DP-1215	Trip Blank - gas only
SY-PLZ-1602A	
SY-PLZ-151A	

DATA ASSESSMENT SUMMARY

Review Item	VOA	BNA SVOA	PEST. PCB	PHOS. PEST	CHLOR. HERB	DIOXIN FURAN	GC NUTP4	GC
1. Data Completeness		O	O				O	
2. Holding Times		O	O				O	
3. GC/MS Tuning		O	—				—	
4. Instrument Performance		O	O				O	
5. Calibrations		O	O				O	
6. Blanks		O	O				O	
7. Surrogates		O	O				O	
8. ~~MS/MSD~~ LCS/LCSD		O	O				O	
9. Internal Standards		O	—				—	
10. Compound Identification		O	O				O	
11. Tent. Ident. Cmpds (TIC)		—	—				—	
12. Result Verification		O	O				O	
13. Detection Limits		O	O				O	
14. System Performance		O	O				O	
15. Overall Assessment		O	O				O	

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

Comments/Qualified Results: Cooler temp 8°C. No action - samples arrived @ lab on same day as collection.

Validated by: [signature] Date: 6.14.05

Reviewed by: [signature] Date: 6-24-05

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	No
1. Data Completeness (check if present)	✓	

✓ Case narrative
✓ Chain of Custody
✓ Sample Analysis Request
✓ Sample Results
✓ Detection Limits
✓ GC/MS Tuning
✓ Initial Calibration Data
✓ Continuing Calibration Data
✓ Blank Results
✓ Surrogate Results
✓ MS/MSD Results
✓ Internal Standards Performance
✓ Raw Data
✓ Sample Preparation Data
✓ Standards Preparation Data

Comments/Action Taken: _____

2. Holding Times (check all that apply)	✓	

✓ Unpreserved VOA samples analyzed in 7 days from collection
✓ Preserved VOA samples analyzed in 14 days from collection
✓ BNA samples extracted in 7 days (14 days soils) from collection
✓ BNA extracts analyzed in 40 days from extraction
✓ Pest/PCB samples extracted in 7 days (14 days soils) from collection
✓ Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: _____

3. GC/MS Tuning	✓	

✓ GC/MS tuning performed
✓ GC/MS tuning within control limits
✓ GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: _____

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
4. Instrument Performance	✓	

__DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [if no, R detects]
✓ Standard Checks within Retention Time Window [if no, check against expanded windows and if outside, qualify R/UR]
__DDT and/or Endrin Breakdowns >20% (J/UR DDT and Endrin, NJ all breakdown product hits)
✓ DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results:

	Acceptable Yes	Acceptable No
5. Initial and Continuing Calibration	✓	

GC/MS Data
✓ Initial calibration performed
✓ Initial calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Initial calibration RSDs ≤30% for all compounds (if no, J/UJ)
✓ Continuing calibration performed
✓ Continuing calibration RRFs ≥0.05 for all compounds (if no, J/UR)
✓ Continuing calibration %Ds ≤25% for all compounds (if no, J/UJ)
Pesticide/PCB data
✓ RSD ≤10% for performance checks (if no, J detects)
✓ All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
✓ Continuing calibration %D ≤15% for quantitation (≤20% for confirmation) [if no, J all detects]

Comments/Qualified Results:
CCV 5/26/05 %D >25 benzoic acid hexachlorocyclop. 24DNP 4 nitroph. indeno(123cd) pyrene dibenz(ah) anth benz(ghi) perylene UJ for SY-PL2 151A, 152A

	Acceptable Yes	Acceptable No
6. Blanks	✓	

✓ Method blanks analyzed
Common Laboratory Contaminants Detected
__Methylene chloride __Toluene
__Acetone detected __2-Butanone
✓ Phthalates detected (list or attach summary sheet) ① See below
__TICs detected (list or attach summary sheet)
Qualify sample results <10x above as U at SQL
Non-common Laboratory Contaminants
__Other TCL compounds detected (list or attach summary sheet)
Quality sample results <5x above as U at SQL

Comments/Qualified Results:
① SVOA MB di-n-butyl phthalate 1.5 µg/L 'U' SY-PL2-151A, 152A

ORGANIC DATA VALIDATION SUMMARY

	Acceptable Yes	Acceptable No
7. Surrogates.	✓	

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

__Surrogates analyzed
__Surrogate recoveries within method control limits
__Surrogate recoveries above method control limits (J detects only)
__Surrogate recoveries below method control limits but ≥10% (J/UJ)
__Surrogate recoveries below 10% (J/UR)

8. Matrix Spike/Matrix Spike Duplicate	✓	

__MS/MSD analyzed
__MS/MSD recoveries within method control limits
__MS/MSD recoveries above method control limits (J detects only)
__MS/MSD recoveries below method control limits but ≥10% (J/UJ)
__MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: LCS/LCSD non-ok

9. Internal Standards Performance	✓	

✓ Internal standards added to all samples and QC
✓ Internal standard areas within control limits
__Internal standard areas outside control limits but greater than 10% (J/UJ)
__Internal standard areas are zero or less than 10% (J/UR)
✓ Internal standard RTs within ±30 second windows (if no, J/UJ)

Comments/Qualified Results:

10. Compound Identification	✓	

✓ Library search data provided for positive results (if no and data is required, request from the laboratory)
✓ Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
__Compound ID within ±0.06 RRT of standard (if no, qualify as J if spectral match okay)
__Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) . . . . . ___ ___

___TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
___TIC's identified properly
___TIC's present in blank and samples (qualify according to 5x rule)
___Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO_2 (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
___Qualify valid TICs as JN

Comments/Qualified Results: N/A

12. Result Verification . . . . . ✓ ___

✓All results supported in raw data
___Transcription errors identified (note constituent(s) and changes below)
___Calculation errors identified (note constituent(s) and changes below)

Comments/Qualified Results:

13. Detection Limits . . . . . ✓ ___

✓Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results:

14. System Performance . . . . . ✓ ___

___Baseline anomalies noted which affect quantitation (J/UJ)
___High background MS levels noted which affect quantitation (J/UJ)
___Extraneous or coeluting peaks affecting quantitation (J/UJ)
___Poor resolution (J/UJ)
___Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

no recalc, ND in samples.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Received: 05/20/05

Data Release Authorized:
Reported: 05/25/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-052305	Method Blank	05/23/05	05/25/05	1.0	Diesel	< 0.25 U
05-8843	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	87.6%
IC01C	SY-PL2-602A	05/23/05	05/25/05	1.0	**Diesel**	**0.26**
05-8843	HC ID: **DRO**		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	86.7%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

6.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 1
Matrix: Water

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

Data Release Authorized:
Reported: 05/24/05

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-052305	Method Blank	05/23/05		Gasoline	< 0.25 U
05-8843		PID2		HC ID	---
				Trifluorotoluene	95.7%
				Bromobenzene	99.9%
IC01C	SY-PL2-602A	05/23/05		Gasoline	< 0.25 U
05-8843		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	101%
IC01F	TRIP BLANK	05/23/05		Gasoline	< 0.25 U
05-8846		PID2		HC ID	---
				Trifluorotoluene	105%
				Bromobenzene	101%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

6.14.05

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-11-19
SAMPLE

Lab Sample ID: IC01A
LIMS ID: 05-8841
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 19:03
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.2%
Tetrachlorometaxylene	88.5%

6.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: SY-DP-12-15
SAMPLE

Lab Sample ID: IC01B
LIMS ID: 05-8842
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 19:20
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	51.0%

564405

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/26/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 19:37
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	63.0%
Tetrachlorometaxylene	94.2%

5/6/05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/24/05 17:50
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 ~~U~~ UJ
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 ~~U~~ UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 ~~U~~ UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 ~~U~~ UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

5.26.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Date Analyzed: 05/24/05 17:50

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**1.4 ~~J~~ U**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 ~~J~~ UJ
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 ~~J~~ UJ
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 ~~J~~ UJ

Reported in $\mu g/L$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	84.0%	d4-1,2-Dichlorobenzene	64.8%
d5-Phenol	70.1%	2-Fluorophenol	69.1%
2,4,6-Tribromophenol	80.3%	d4-2-Chlorophenol	75.7%

9.6.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: IC01E
LIMS ID: 05-8845
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/24/05 18:25
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 ~~U~~ UJ
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 ~~U~~ UJ
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 ~~U~~ UJ
100-02-7	4-Nitrophenol	5.0	< 5.0 ~~U~~ UJ
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

56.14.0T

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: IC01E
LIMS ID: 05-8845
Matrix: Water
Date Analyzed: 05/24/05 18:25

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**1.6 ~~B~~ U**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 ~~U~~ UJ
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 ~~U~~ UJ
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 ~~U~~ UJ

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.4%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	80.4%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	65.3%	2-Fluorophenol	65.3%
2,4,6-Tribromophenol	78.1%	d4-2-Chlorophenol	72.3%

6.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-151A
SAMPLE

Lab Sample ID: IC01D
LIMS ID: 05-8844
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 14:43
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate	Recovery
d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracene	54.3%

5.6.14.05

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS

Sample ID: SY-PL2-152A
SAMPLE

Lab Sample ID: IC01E
LIMS ID: 05-8845
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IC01-The Boeing Company
Project: SOUTH YARD DATA GAPS
17505.0
Date Sampled: 05/20/05
Date Received: 05/20/05

Date Extracted: 05/23/05
Date Analyzed: 05/25/05 13:51
Instrument/Analyst: NT1/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	0.10	< 0.10 U
91-57-6	2-Methylnaphthalene	0.10	< 0.10 U
208-96-8	Acenaphthylene	0.10	< 0.10 U
83-32-9	Acenaphthene	0.10	< 0.10 U
86-73-7	Fluorene	0.10	< 0.10 U
85-01-8	Phenanthrene	0.10	< 0.10 U
120-12-7	Anthracene	0.10	< 0.10 U
206-44-0	Fluoranthene	0.10	< 0.10 U
129-00-0	Pyrene	0.10	< 0.10 U
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
205-99-2	Benzo(b)fluoranthene	0.10	< 0.10 U
207-08-9	Benzo(k)fluoranthene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
191-24-2	Benzo(g,h,i)perylene	0.10	< 0.10 U
132-64-9	Dibenzofuran	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	69.0%
d14-Dibenzo(a,h)anthracene	46.0%

6.14.05

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Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume IIIb: South Yard Area

Data Gap Investigation Report

Part 2 of 2

Attachment H
Field Information

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Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: _____ Date: _____

Calibrated By: _____ Log Sheet 2 of _____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	**pH**						
1b	pH Electrode						
	Calibrated. _____ to 4.00 buffor _____ to 7.00 buffer _____ to 10.00 buffer at _____ °C						
	Slope = _____ Comments:						
2	**Conductivity**						
	Specific Conductance. Calibrated _____ µS/cm to _____ µS/cm calibration standard						
	Electrical Conductivity: Calibrated _____ µS/cm to _____ µS/cm calibration standard at _____ °C						
	Comments:						
3	**Temperature**						
4a	**ORP Meter**						
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured _____ millivolts at _____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is _____ mV						
	Electrode measured _____ millivolts at _____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is _____ mV						
5	**Turbidity**						
	Calibrated turbidimeter to 0.02 NTUs reference standard. Comments:						
6a	**DO Meter**						
	Air-Calibration: Measured temperature _____ °C corresponds to _____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor _____ (from Table II)						
	Corrected calibration value _____ mg/L DO (Table I value times Table II value)						
	Comments						
7a	**Fluoride**						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm, 10.0 ppm, and 100 ppm fluoride standards. Slope = _____ @ _____ °C						
	Comments						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: SY Date: 3/8/05

Calibrated By: JB/TK Log Sheet 2 of _____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	pH	Horiba	U-22				
1b	pH Electrode						
	Calibrated: 3.97 to 4.00 buffer _____ to 7.00 buffer _____ to 10.00 buffer at 15.2 °C						
	Slope = _____ Comments: Using Auto Cal						
2	Conductivity	4.5 mS/cm	Auto Cal Solution				
	Specific Conductance: Calibrated _____ µS/cm to _____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated _____ µS/cm to _____ µS/cm calibration standard at _____ °C						
	Comments:						
3	Temperature	15.2°C					
4a	ORP Meter						
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured _____ millivolts at _____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is _____ mV.						
	Electrode measured _____ millivolts at _____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is _____ mV.						
5	Turbidity	5.72 or 5.58	Standard	0.0 or 58.6 Standard			
	Calibrated turbidimeter to 0.02 NTUs reference standard	Comments: Hach 2100P Turbidimeter					
6a	DO Meter						
	Air-Calibration: Measured temperature _____ °C corresponds to _____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor _____ (from Table II)						
	Corrected calibration value _____ mg/L DO (Table I value times Table II value)						
	Comments.						
7a	Fluoride						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm, 10.0 ppm, and 100 ppm fluoride standards. Slope = _____ @ _____ °C						
	Comments:						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: SY Date: 3/9/25

Calibrated By: JB/TK Log Sheet 2 of _____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	**pH**	Horiba	U-22				0900
1b	pH Electrode						
	Calibrated: ~~4.02~~ 3.98 to 4.00 buffer _____ to 7.00 buffer _____ to 10.00 buffer at 14.3 °C						
	Slope = _____ Comments: Using Auto Cal solution						
2	**Conductivity**	4.5 mS/cm	Auto Cal solution				
	Specific Conductance: Calibrated _____ µS/cm to _____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated _____ µS/cm to _____ µS/cm calibration standard at _____ °C						
	Comments:						
3	**Temperature**	14.3°C					
4a	**ORP Meter**						
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured _____ millivolts at _____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is _____ mV.						
	Electrode measured _____ millivolts at _____ °C in Orion 900001 solution						
	Table value for 900001 fill solution at this temperature is _____ mV.						
5	**Turbidity**	0.0 NTU Auto Cal					
	Calibrated turbidimeter to 0.02 NTUs reference standard	Comments:					
6a	**DO Meter**	0.0 mg/L	Calitech Zero Oxygen Cal known Solution				
	Air-Calibration Measured temperature _____ °C corresponds to _____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor _____ (from Table II)						
	Corrected calibration value _____ mg/L DO (Table I value times Table II value)						
	Comments.						
7a	**Fluoride**						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm, 10.0 ppm, and 100 ppm fluoride standards. Slope = _____ @ _____ °C						
	Comments:						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: ST Date: 3/10/05

Calibrated By: JS/TK Log Sheet 2 of ____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	pH	Horiba	U-22				0745
1b	pH Electrode						
	Calibrated: 3.96 to 4.00 buffer ____ to 7.00 buffer ____ to 10.00 buffer ____ at 11.1 °C						
	Slope = ____ Comments: Using Auto Cal Solution						
2	Conductivity	4.5 mS/cm	Auto Cal Solution				
	Specific Conductance: Calibrated ____ µS/cm to ____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated ____ µS/cm to ____ µS/cm calibration standard at ____ °C						
	Comments:						
3	Temperature	11.1°C					
4a	ORP Meter	135mV on 100mV Standard Calitech (Ag/AgCl)					
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured ____ millivolts at ____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is ____ mV.						
	Electrode measured ____ millivolts at ____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is ____ mV.						
5	Turbidity	0.0 NTU	Auto Cal Solution				
	Calibrated turbidimeter to 0 02 NTUs reference standard. Comments:						
6a	DO Meter	0.0 mg/L	Cal-tech				
	Air-Calibration: Measured temperature ____ °C corresponds to ____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor ____ (from Table II)						
	Corrected calibration value ____ mg/L DO (Table I value times Table II value)						
	Comments:						
7a	Fluoride						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm; 10.0 ppm; and 100 ppm fluoride standards Slope = ____ @ ____ °C						
	Comments:						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: SY

Date: 3/11/08

Calibrated By: JB/TK

Log Sheet 2 of ____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	**pH**	Horiba	U-22				
1b	**pH Electrode**						
	Calibrated: 3.97 to 4.00 buffer ____ to 7.00 buffer ____ to 10.00 buffer at ____ °C						
	Slope = ____ Comments Auto Cal Solution						
2	**Conductivity**	4.5 mS/cm					
	Specific Conductance Calibrated ____ µS/cm to ____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated ____ µS/cm to ____ µS/cm calibration standard at 10.1 °C						
	Comments.						
3	**Temperature**	10 °C					
4a	**ORP Meter**						
4b	**ORP Electrode**						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured ____ millivolts at ____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is ____ mV.						
	Electrode measured ____ millivolts at ____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is ____ mV.						
5	**Turbidity**	0.0 NTU	Auto Cal Sol'n.				
	Calibrated turbidimeter to 0.02 NTUs reference standard	Comments:					
6a	**DO Meter**						
	Air-Calibration: Measured temperature ____ °C corresponds to ____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor ____ (from Table II)						
	Corrected calibration value ____ mg/L DO (Table I value times Table II value)						
	Comments						
7a	**Fluoride**						
7b	**Fluoride Electrode**						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm, 10.0 ppm, and 100 ppm fluoride standards Slope = ____ @ ____ °C						
	Comments.						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: SY

Date: [illegible]

Calibrated By: JB, TL

Log Sheet 2 of ____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	pH Horiba	U-22					
1b	pH Electrode						
	Calibrated 3.97 to 4.00 buffer ____ to 7.00 buffer ____ to 10.00 buffer at 10.1 °C						
	Slope = ____ Comments. Using Auto Cal Solution						
2	Conductivity	4.5 mS/cm					
	Specific Conductance. Calibrated ____ µS/cm to ____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated ____ µS/cm to ____ µS/cm calibration standard at ____ °C						
	Comments:						
3	Temperature	10.1°C					
4a	ORP Meter	[illegible]					
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0 2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured ____ millivolts at ____ °C in Zobell prepared on / /						
	Table value for Zobell solution at this temperature is ____ mV.						
	Electrode measured ____ millivolts at ____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is ____ mV						
5	Turbidity	0.0 NTU	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Calibrated turbidimeter to 0 02 NTUs reference standard. Comments						
6a	DO Meter	0.06 mg/L on Zero Solution	[illegible]	[illegible]	[illegible]		
	Air-Calibration Measured temperature ____ °C corresponds to ____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor ____ (from Table II)						
	Corrected calibration value ____ mg/L DO (Table I value times Table II value)						
	Comments						
7a	Fluoride						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1 0 ppm, 10.0 ppm,and 100 ppm fluoride standards Slope = ____ @ ____ °C						
	Comments.						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: SY Date: 3/ /05

Calibrated By: JB/TK Log Sheet 2 of _____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	pH	Horiba	U-22				
1b	pH Electrode						
	Calibrated: 3.99 to 4.00 buffer _____ to 7.00 buffer _____ to 10.00 buffer at 10.2 °C						
	Slope = _____ Comments: Auto Cal solution						
2	Conductivity	0.46 S/m w/ 4.49 mS/cm					
	Specific Conductance Calibrated _____ µS/cm to _____ uS/cm calibration standard						
	Electrical Conductivity Calibrated _____ µS/cm to _____ µS/cm calibration standard at _____ °C						
	Comments: Auto Cal solution						
3	Temperature	15.2°C					
4a	ORP Meter						
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured _____ millivolts at _____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is _____ mV						
	Electrode measured _____ millivolts at _____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is _____ mV.						
5	Turbidity	0.0 NTU w/ Auto Cal solution		5.62 on 5.54	5.58 Standard / 5.58 b Standard	5.58 on 5.58 standard	
	Calibrated turbidimeter to 0.02 NTUs reference standard	Comments					
6a	DO Meter						
	Air-Calibration. Measured temperature _____ °C corresponds to _____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor _____ (from Table II)						
	Corrected calibration value _____ mg/L DO (Table I value times Table II value)						
	Comments:						
7a	Fluoride						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm, 10.0 ppm and 100 ppm fluoride standards. Slope = _____ @ _____ °C						
	Comments:						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: _____ Date: _____

Calibrated By: _____ Log Sheet 2 of _____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	**pH**						
1b	pH Electrode						
	Calibrated: _____ to 4.00 buffer _____ to 7.00 buffer _____ to 10.00 buffer at _____ °C						
	Slope = _____ Comments:						
2	**Conductivity**						
	Specific Conductance; Calibrated _____ µS/cm to _____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated _____ µS/cm to _____ µS/cm calibration standard at _____ °C						
	Comments:						
3	**Temperature**						
4a	**ORP Meter**						
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured _____ millivolts at _____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is _____ mV.						
	Electrode measured _____ millivolts at _____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is _____ mV.						
5	**Turbidity**						
	Calibrated turbidimeter to 0.02 NTUs reference standard.	Comments.					
6a	**DO Meter**						
	Air-Calibration. Measured temperature _____ °C corresponds to _____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor _____ (from Table II)						
	Corrected calibration value _____ mg/L DO (Table I value times Table II value)						
	Comments:						
7a	**Fluoride**						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm; 10.0 ppm, and 100 ppm fluoride standards. Slope = _____ @ _____ °C						
	Comments						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: _____ **Date:** _____

Calibrated By: _____ **Log Sheet 2 of** _____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	**pH**						
1b	**pH Electrode**						
	Calibrated _____ to 4.00 buffer _____ to 7.00 buffer _____ to 10.00 buffer at _____ °C						
	Slope = _____ Comments:						
2	**Conductivity**						
	Specific Conductance: Calibrated _____ µS/cm to _____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated _____ µS/cm to _____ µS/cm calibration standard at _____ °C						
	Comments:						
3	**Temperature**						
4a	**ORP Meter**						
4b	**ORP Electrode**						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured _____ millivolts at _____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is _____ mV.						
	Electrode measured _____ millivolts at _____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is _____ mV.						
5	**Turbidity**						
	Calibrated turbidimeter to 0.02 NTUs reference standard. Comments:						
6a	**DO Meter**						
	Air-Calibration Measured temperature _____ °C corresponds to _____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor _____ (from Table II)						
	Corrected calibration value _____ mg/L DO (Table I value times Table II value)						
	Comments						
7a	**Fluoride**						
7b	**Fluoride Electrode**						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm; 10.0 ppm, and 100 ppm fluoride standards. Slope = _____ @ _____ °C						
	Comments.						

Multiparameter Probe Instrument Calibration Form

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

Meter Type	Manufacturer	Model Number	Mfg. Serial#	Rental Serial # or EPI	Date	Time

Calibrated to Autocal Solution Manufacturer _____ Lot Number _____

pH = _____ Turbidity = _____ Expiration Date _____

Conductivity = _____ Dissolved Oxygen = _____ Temperature = _____

Comments:

EPI Instrument Calibration Log

Site: _____ Date: _____

Calibrated By: _____ Log Sheet 2 of _____

	Meter Type	Manufacturer	Model Number	Mnfg. Serial#	CH2M HILL ID#	Rental Co. Serial#	Time
1a	**pH**						
1b	pH Electrode						
	Calibrated: _____ to 4.00 buffer _____ to 7.00 buffer _____ to 10.00 buffer at _____ °C						
	Slope = _____ Comments:						
2	**Conductivity**						
	Specific Conductance: Calibrated _____ µS/cm to _____ uS/cm calibration standard						
	Electrical Conductivity: Calibrated _____ µS/cm to _____ µS/cm calibration standard at _____ °C						
	Comments:						
3	**Temperature**						
4a	**ORP Meter**						
4b	ORP Electrode						
	Electrode Filling Solution = Orion 900001						
	Use Orion 900001 electrode filling solution for dilute solutions that have a total ionic strength of <0.2 M.						
	Using 900001 fill solution, the electrode will match the potential of a conventional calomel electrode.						
	Electrode measured _____ millivolts at _____ °C in Zobell prepared on / / .						
	Table value for Zobell solution at this temperature is _____ mV.						
	Electrode measured _____ millivolts at _____ °C in Orion 900001 solution.						
	Table value for 900001 fill solution at this temperature is _____ mV.						
5	**Turbidity**						
	Calibrated turbidimeter to 0.02 NTUs reference standard. Comments:						
6a	**DO Meter**						
	Air-Calibration: Measured temperature _____ °C corresponds to _____ mg/L DO (from Table I)						
	Atmospheric pressure / elevation correction factor _____ (from Table II)						
	Corrected calibration value _____ mg/L DO (Table I value times Table II value)						
	Comments						
7a	**Fluoride**						
7b	Fluoride Electrode						
	Electrode Filling Solution = Orion 900001						
	Calibrated to 1.0 ppm, 10.0 ppm, and 100 ppm fluoride standards. Slope = _____ @ _____ °C						
	Comments:						

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station		Date	
Sample: ID		Field Team: (Initials)	
Field Conditions			

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: : _____

Start Time	
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

End Time	

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-DP-05 [illegible]	Date	[illegible]
Sample: ID	DP-[illegible]-5 SY-DP-05-15	Field Team: (Initials)	JB, [illegible]
Field Conditions	[illegible]		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other

Start Time	0530
End Time	0920
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0830									
0835	0.2	6.40	72	mS/m	—	7.1	14.8 °C	31 mV	Very Cloudy
0840	0.5	6.62	58		—	10.0	14.9	[illegible]	" "
0843	0.6	6.67	66		—	7.2	14.9	-77	" "
0847	0.8	6.71	57		690	9.7	15.0	-91	" "
0850	1.0	6.74	64		390	2.7	15.0	-108	Cloudy
0853	1.2	6.77	64		330	1.9	15.0	-99	Clearing
0856	1.4	6.78	64		190	1.7	15.0	-125	Clearing
0859	1.7	6.79	64		130	1.6	15.0	-130	Clearing
									Clear w/ Turb
									Meter ORP

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOC	0900			
SVOC	0900			
PCB	0900			
Chromium VI	0900			
Metals	0900			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-~~04~~ [illegible]	Date	3/7/05
Sample: ID	SY-DP-04-15	Field Team: (Initials)	SB/TK
Field Conditions	cloudy		

Purge Information

Well Diameter (in.)	
Well Depth (ft)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other:

Start Time	0956
End Time	1045
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
10:00	.3	6.73	.10		<1000	9.9	15.7	-68	Dirty
10:03	.5	6.77	.12		303	1.3	15.8	-119	"
10:06	.7	6.79	.12		161	.9	15.8	-126	Cloudy
10:09	0.9	6.80	0.12	S/m	70.5	0.8	15.8	-139	"
10:12	1.1	6.82	0.12		37.2	0.8	15.8	-146	"
10:15	1.3	6.82	0.13		20.7	0.8	15.7	-150	"
10:18	1.5	6.83	0.13		14.9	0.7	15.7	-155	Clear
10:21	1.7	6.82	0.13		9.93	0.8	15.7	-157	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOC	1025			
SVOC	1025			
PCB	1025			
Hex Chr	1025			
P-Metal	1025			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Dr. elevator

Station	SY-03	Date	2/11/05
Sample: ID	SY-OP-03-15	Field Team: (Initials)	JB TR
Field Conditions	Cloudy		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other:

Start Time	1115
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1119	.4	6.51	52		640	10.0	15.7	-23	Cloudy
1122	.6	6.81	55	mS/m	318	3.0	15.7	-65	Clearing/Cloudy
1125	0.9	6.91	55		202	1.1	15.7	-96	Cloudy
1128	1.1	6.94	55		129	0.7	15.7	-121	Cloudy
1131	1.4	6.97	55		95.9	0.6	15.7	-136	Cloudy
1134	1.7	6.99	56		68.1	0.6	15.7	-148	Cloudy
1137	2	7.00	56		71.1	0.6	15.5	-156	Cloudy/Clearing
1140	2.2	7.00	56		47.3	0.5	15.8	-161	Clearing/

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1145			Dupe @ 1155
SVOCs	1145			Dupe @ 1155
Metals	1145			Dupe @ 1155
Hex Chrom	1145			Dupe @ 1155
PCBs	1145			Dupe @ 1155

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-GW-DP-01	Date	3/7/25
Sample: ID	SY-DP-02-15	Field Team: (Initials)	JB / TK
Field Conditions	cloudy		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other

Start Time	1217
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp	ORP	Appearance
1253	.5	6.71	79		49.2	2.9	16.6	-36	Cloudy
1256	.8	6.78	79		30.4	1.2	16.6	-53	Clear
1259	1	6.81	79		20.4	0.9	16.2	-73	clear
1302	1.2	6.83	79		15.4	0.8	15.9	-90	Clear
1305	1.5	6.84	79		12.3	0.7	15.9	-105	Clear
1309	1.7	6.85	78		10.2	0.6	15.9	-116	Clear
1311	2	6.86	79		8.6	0.6	15.8	-124	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1315			
SVOCs	1315			
Metals	1315			
Hex Chrome	1315			
PCB	1315			

End Time	

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY DP-06	Date	3/7/05
Sample. ID	SY-DP-06-15	Field Team: (Initials)	IB/TK
Field Conditions	Partly cloudy		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other:

Start Time	1420
End Time	1440
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp	ORP	Appearance
1407	.4	6.69	73	49.8	5.1	16.9	-32	Cloudy
1410	.6	6.68	73	18.8	1.5	16.9	-42	Clear
1413	.8	6.67	73	10.7	1.0	16.4	-51	Clear
1416	1.0	6.69	73	7.62	1.6	16.8	-61	Clear
1419	1.2	6.69	73	6.37	0.9	16.7	-70	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOC	1420			
SVOCs	1420			
PCBs	1420			
Metals	1420			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-[illegible]	Date	5/7/05
Sample: ID	SY-OP-08-15	Field Team: (Initials)	JB/TK
Field Conditions	Partly Cloudy		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) . Submersible pump
Bladder Pump
Peristaltic Pump
Other: ÷ - -

Start Time	1510
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
1518	.5	6.51	67	817	8.1	17.4	5	silty
1521	.7	6.63	67	411	1.5	17.2	-9	silty
1524	1	6.60	68	287	1.0	17.0	-18	cloudy
1527	1.2	6.59	68	203	0.9	16.9	-30	cloudy
1530	1.4	6.60	68	116	0.9	16.8	-43	turbid
1533	1.7	6.63	69	97.1	0.9	16.8	-55	cloudy
1536	2	6.65	70	96.2	0.8	16.8	-66	cloudy
1539	2.2	6.68	70	88.4	0.8	16.7	-74	cloudy

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1545			
SVOCs	1545			
PCB	1545			
Metals	1545			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-07	Date	3/7/05
Sample: ID	SY-DP-07-15	Field Team. (Initials)	SB/TK
Field Conditions	Partly Sunny		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: :

Start Time	1632
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
1639	0.4	6.69	97	n/a	62.4	3.2	16.4	Very cloudy
1642	0.6	6.73	97		43.9	1.5	16.2	Cloudy
1645	0.8	6.78	97		46.6	1.1	16.1	Cloudy
1648	1.0	6.80	97		46.5	1.0	16.0	Little cloudy
1651	1.2	6.82	97		25.0	0.9	16.0	Clearing
1654	1.4	6.83	96		19.9	0.9	15.9	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1700			
SVOCs	1700			
PCBs	1700			
Metals	1700			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-01	Date	3/8/05
Sample: ID	SY-DP-01-15	Field Team: (Initials)	JB/TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: _____

Start Time	0800
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0808	.5	6.43	.10		767	4.7	15.1	97	Cloudy
0811	0.7	6.77	0.10	S/m	381	1.8	15.2	43	Cloudy
0814	1.0	6.88	0.10		237	1.0	15.3	19	Cloudy
0817	1.3	6.93	0.10		165	1.1	15.4	-3	Cloudy
0820	1.6	6.97	0.1		92.6	0.7	15.4	-42	Cloudy
0823	1.9	6.98	0.1		68.3	0.7	15.5	-75	Cloudy
0826	2.2	6.99	0.1		53.8	0.7	15.5	-98	Clearing
0829	2.5	7.00	0.1		52.2	0.7	15.5	-110	Clear
0832	2.8	7.01	0.1		49.4	0.7	15.5	-122	"

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	0840			
SVOCs	0840			
PCBs	0840			
Metals	0840			
Hex Chrom	0840			

End Time	

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-01	Date	3/5/09
Sample: ID	SY-DP-09-15	Field Team: (Initials)	SB/TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: :

Start Time	0940
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
0945	.4	6.71	90	665	10.2	16.9	-15	cloudy
0948	.6	6.72	88	218	1.4	17.0	-23	cloudy
0951	.9	6.74	88	101	1.0	17.0	-30	cloudy
0954	1.2	6.75	88	61	0.9	17.0	-38	cloudy
0957	1.5	6.77	89	41.4	0.8	17.1	-47	clear
1000	1.8	6.77	89	36.0	0.8	17.1	-57	clear
1003	2.1	6.78	89	22.8	0.8	17.1	-69	clear
1006	2.5	6.78	89	17.5	0.7	17.1	-76	clear
1009	2.8	6.78	89	18.5	0.7	17.1	-83	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1015			
SVOCs	1015			
PCBs	1015			
Metals	1015			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-10	Date	3/8/05
Sample: ID	SY DP 10-8 18' feet [illegible]	Field Team: (Initials)	[illegible]
Field Conditions			

Purge Information

Well Diameter (in)	
Well Depth (ft)	
Initial Depth to Water (ft)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: : _____

Start Time	1130
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
1132	.1	6.47	.13	23.8	7.2	18.7	13	Clear
1135	.2	6.42	.13	25.5	3.7	18.1	9	clear
1138	.3	6.42	.13	24.6	3.2	18.5	7	clear
1141	.4	6.43	.13	26.0	3.0	18.3	1	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
Metals	1200			
PCBs	1200			
VOCs	1200			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

low flow very poor producing well.

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-11	Date	3/8/05
Sample: ID	SY-DP-11-17	Field Team: (Initials)	JB/TK
Field Conditions	sunny		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other

Start Time	1255
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp	ORP	Appearance
1300	.3	6.90	.15		19.6	9.3	18.7	-1	Clear
1303	.6	6.86	.14		12.1	2.3	18.4	-10	Clear
1306	.9	6.89	.14		8.51	1.8	18.1	-21	Clear
1309	1.2	6.91	.14	Slim	7.16	1.5	17.9	-35	clear
1312	1.5	6.92	.14		6.34	1.4	17.8	-51	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
Metals	1315			
LL Hg	1315			
VOCs	1315			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-12	Date	3/8/05
Sample: ID	SY-DP-12-5	Field Team: (Initials)	JB/TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	1400
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1409	0.6	6.80	0.12	S/m	274	6.7	18.4	-3	Cloudy
1413	0.9	6.67	0.11		142	4.5	18.1	-11	Cloudy
1416	1.2	6.68	0.11		72.4	3.1	17.9	-18	Cloudy
1419	1.5	6.67	0.11		53.7	2.6	17.9	-23	Clearing
1422	1.8	6.67	0.12		50.3	1.7	17.8	-29	Clearing
1425	2.1	6.68	0.12		40.6	2.3	17.6	-38	Clear
1428	2.5	6.69	0.12		30.8	1.5	17.5	-45	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1440			
Metals	1440			
LL Hg	1440			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-153 C	Date	3/9/04
Sample: ID	SY-PL2-153 C	Field Team: (Initials)	JB/TK
Field Conditions	Cloudy		

Purge Information

Well Diameter (in)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	11.96
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: : _____

Start Time	1135
End Time	1215
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1136	.1	6.96	1.4		606	.73	16.1	-181	Clear
1139	.3	7.05	1.4		3.39	0	16.2	-189	Clear
1142	.6	7.07	1.5		3.15	0	16.2	-195	Clear
1145	.8	7.08	1.4		1.96	0	16.1	-199	Clear
1148	1	7.09	1.4	SCM	2.17	0.0	16.1	-200	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
Metals	1200			
VOCs	1200			
LL Hg	1200			

End Time 1215

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-153B	Date	3/9/05
Sample: ID	SY-PL2-153B	Field Team: (Initials)	SB/TK
Field Conditions	Cloudy		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	~~9.83~~
Initial Depth to Water (ft.)	9.37
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: : _____

Start Time	12:53
End Time	1330
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
12:56	.1	7.12	1.1		8.62	2.1	15.7	-151	Clear
1259	.3	7.12	1.1		2.93	0.0	16.0	-166	Clear
1302	.5	7.12	1.1		1.21	0.0	16.0	-177	Clear
1305	.8	7.12	1.1		1.22	0.0	15.9	-183	Clear
1308	1.1	7.12	1.1	S/M	0.84	0.0	15.9	-186	Clear
1311	1.5	7.12	1.1		0.75	0.0	15.9	-188	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1315			
Metals Tot/Diss	1315			
LL Hg Tot/Diss	1315			

End Time 1330

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-153A	Date	3/9/05
Sample ID	SY-PL2-153A	Field Team: (Initials)	SB/TK
Field Conditions	Cloudy		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.13
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other

Start Time	1350
End Time	1700
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp	ORP	Appearance
1352	.1	6.95	88	214	1.5	15.6	-90	clear
1355	.4	6.84	88	14.7	0.0	15.6	-95	clear
1358	.7	6.83	88	10.06	0.0	15.7	-105	clear
1401	1.1	6.87	86	8.77	0.0	15.7	-114	clear
1404	1.2	6.88	86	7.45	0.0	15.5	-120	clear
1407	1.5	6.89	85	6.35	0.0	15.4	-123	clear
1410	1.8	6.89	85	4.53	0.0	15.8	-127	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1500 1530 1600			
SVOCs	1500 1530 1600			
PCBs	1500 1530 1600			
Metals Total/Diss	1500 1530 1600			
LL Hg Total/Diss	1500 1530 1600			
Wet/Alkalinity/Cl	1500 1530 1600			
Hex Chr.	1500 1530 1600			
End Time	1700			

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

* Fe Iron 4.6 *

* MS + MSD ON THIS SAMPLE * 1530 + 1600

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PLZ-120A	Date	3/14/05
Sample: ID	57-PLZ-1204	Field Team: (Initials)	SB/TK
Field Conditions	Windy / Cloudy / Cool		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.54
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other : _____

Start Time	0815
End Time	1030
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0818	.1	6.38	78		205	1.13 mg/L	14.9	65 mV	Cloudy
0821	.4	6.56	75		157	0.00	15.2	47	Cloudy
0824	.7	6.53	74		212	0.00	15.3	-2	Cloudy
0827	1	6.61	72		160	0.00	15.4	-29	cloudy
0830	1.3	6.66	70		130	0.0	15.3	-36	cloudy
0833	1.7	6.69	71		104	0.00	15.4	-43	cloudy/clearing
0836	2.1	6.72	69		82.5	0.00	15.4	-48	clearing
0839	2.5	6.73	68		81.0	0.00	15.5	-53	Clearing
0842	2.8	6.74	69		66.3	0.00	15.4	-57	Clearing
0845	3.1	6.76	68			0.00	15.4	-61	clearing
0850	3.5	6.77	68	mS/m	39.6	0.00	15.5	-66	Clearing
0900	4.0	6.79	67		18.6	0.00	15.5	-72	Clearing

Sample Information

Continued on Next Page

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	0815			
SVOCs	↓			
PCBs				
Metals Total/Dissolved				
LL Hg Total/Dissolved				
Nat'l Attenuation Ps				
Hex Chr	↓			

End Time 1030

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

3.7 mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-120A Continued	Date	
Sample: ID	ST-PL2-120A	Field Team (Initials)	
Field Conditions			

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Continued

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: ____

Start Time	
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
0910	5.0	6.81	66	mS/m 73.6	0.00 mg/l	15.5°C	-80 mV	Clear w/ particles suspended
0913	5.3	6.81	66	77.5	0.00	15.5	-83	" "
0918	5.7	6.82	65	73.5	0.00	15.6	-85	" "
0921	6.0	6.83	64	67.8	0.00	15.6	-85	" "
0924	6.3	6.83	65	63.2	0.00	15.6	-86	" "
0927	6.6	6.83	65	38.0	0.00	15.6	-87	" "
0930	6.9	6.83	65	31.3	0.00	15.5	-88	" "
0933	7.2	6.83	65	15.2	0.00	15.6	-88	Clear w/ little suspension
0936	7.5	6.83	65	9.94	0.00	15.6	-89	" "
0939	7.8	6.83	65	9.47	0.00	15.6	-89	Clear
0942	8.1	6.83	65	7.03	0.00	15.6	-89	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

Continued

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PLZ-154A	Date	3/10/05
Sample ID	SY-154A	Field Team: (Initials)	TB/TK
Field Conditions	Sunny/Windy		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.86
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other: : _____

Start Time	1410
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1417	0.3	6.82	71		7.03	.47 mg/L	15.6	-157	Clear
1420	0.5	6.84	69		4.0	.36	15.5	-160	Clear
1423	0.9	6.85	68		3.2	.27	15.5	-162	Clear
1426	1.1	6.86	68		3.0	.24	15.5	-164	Clear
1429	1.4	6.87	67		2.3	.20	15.6	-166	Clear
1432	1.7	6.88	66		3.1	.19	15.5	-168	Clear
1435	2.0	6.87	65		3.4	.19	15.6	-167	Clear
1438	2.3	6.87	65	mg/m	1.8	0.18	15.6	-168	Clear
1441	2.6	6.88	65		1.1	0.18	15.6	-170	Clear
1444	2.9	6.87	65		0.8	0.17	15.6	-170	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1500			
SVOCs	↓			
PCBs	↓			
TMetals Total/Dis	↓			
Hg Total/Dis	↓			
Hex Chr	↓			
NH4 After Preset	↓			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Fe Iron 7.2

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-154B	Date	3/10/05
Sample: ID	SY-PL2-154B	Field Team: (Initials)	TB, TK
Field Conditions	Sunny / Windy		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	~~4.70~~
Initial Depth to Water (ft.)	9.76
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) Submersible pump / Bladder Pump / Peristaltic Pump / Other:

Start Time	1525
End Time	1600
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1521	.1	6.83	.39	s/m	9.4	.39	16.2	-137	Clear
1524	.4	6.86	.39		6.46	.32	16.2	-145	clear
1527	.7	6.83	.39		5.62	.24	16.2	-151	Clear
1530	1	6.88	.38		5.67	.20	16.1	-156	Clear
1533	1.3	6.89	.39		6.20	.17	16.0	-159	Clear
1536	1.6	6.89	.35		3.56	.16	16.1	-161	Clear
1539	1.9	6.89	.38		3.26	.15	16.0	-162	Clear
1542	2.2	6.89	.38		3.19	.15	16.0	-162	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1550			
Metals Totals/Diss	1550			
LL Hg Totals/Diss	1550			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-154C	Date	3/10/05
Sample. ID	SY-PL2-154C	Field Team: (Initials)	JP/TK
Field Conditions	Sunny + Windy		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.59
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: _____

Start Time	1603
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1606	0.3	7.23	2.4	S/m	5.25	0.31 mg/L	16.3	-185mV	Clear
1609	0.6	7.24	2.4		4.82	0.29	16.3	-189	Clear
1612	0.9	7.25	2.4		4.06	0.22	16.3	-197	Clear
1615	1.2	7.26	2.4		4.15	0.19	16.3	-201	Clear
1618	1.5	7.26	2.4		4.32	0.17	16.3	-205	Clear
1621	1.8	7.26	2.4		4.01	.15	16.3	-206	Clear
1624	2.1	7.26	2.4		4.15	.13	16.2	-208	Clear
1627	2.3	7.26	2.4		3.81	.13	16.2	-209	Clear
1630	2.5	7.26	2.4		2.91	.12	16.2	-210	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
Metals Totals/Diss	1610			
LL Hg Totals/Diss	1640			
VOCs	1640			

End Time 1650

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-156A	Date	3/1/05
Sample: ID	SY-PL2-156A / PL2-156A	Field Team: (Initials)	JB / TR
Field Conditions	Foggy / cool		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft)	
Initial Depth to Water (ft)	9.87
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: :

Start Time	0830
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0840	.1	6.68	70	mS/cm	98.0	.57	15.3	-170	clear
0843	.3	6.70	70		61.1	.37	15.8	-173	clear
0846	.5	6.72	70		19.8	.20	15.8	-172	clear
0849	.7	6.73	70		10.6	.17	15.8	-179	clear
0852	1	6.74	70		6.81	.15	15.8	-181	clear
0855	1.3	6.74	70		6.15	.15	15.9	-182	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	0900			
SVOCs				
PCBs				
Metals Total/Diss				
LL Hg Total/Diss				
Hex Chr				

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Dupe

Notes Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-151C	Date	5/18/05
Sample: ID	SY-PL2-151C	Field Team: (Initials)	JB/TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"	Purge Method (circle) :	Submersible pump
Well Depth (ft.)			Bladder Pump
Initial Depth to Water (ft.)	10.52		Peristaltic Pump
Depth of Water Column			Other: :
3 Casing Volumes		Start Time	1015
1 Casing Volume		End Time	
		Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1021		7.22	1.9	S/m	65.6	1.00	15.2	184	clear
1024	0.4	7.24	1.9		54.7	0.39	15.2	-193	Clear
1027	0.8	7.25	1.9		27.5	0.23	15.2	-201	Clear
1030	1.1	7.25	1.9		25.9	0.14	15.2	-206	Clear
1033	1.4	7.26	1.9		16.5	0.13	15.3	-210	clear
1036	1.7	7.26	1.9		11.8	0.16	15.3	-212	Clear
1039	2.0	7.26	1.9		9.99	0.19	15.3	-214	Clear
1042	2.3	7.25	1.9		11.1	0.23	15.4	-215	Clear
1045	2.6	7.22	1.9		8.12	0.24	15.3	-216	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1100	40 mL VOAs		
Metals Total/Diss	1100	1L HDPE	.45 micron filter	Filtered for dissolved
LL Hg Total/Diss	1100	250 mL HDPE	.45 micron filter	Filtered for dissolved

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-15TB	Date	3/11/03
Sample: ID	SY-PL2-15TB	Field Team: (Initials)	JB / TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.93
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: :

Start Time	1125
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
11:34am	0.3	6.55	0.23	S/m	17.5	0.45 mg/L	15.2	-81 mV	Clear
11:37	0.5	6.54	0.23		10.2	0.32	15.2	-90	Clear
1140	0.8	6.53	0.23		6.05	0.28	15.2	-97	Clear
1143	1.1	6.53	0.23		10.1	0.29	15.2	-102	Clear
1146	1.4	6.53	0.23		2.99	0.31	15.2	-108	Clear
1149	1.7	6.53	0.22		2.41	0.32	15.3	-111	
1152	2.0	6.53	0.22		1.94	0.31	15.2	-115	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1200	4 40ml VOA	HCL	
Metals Tot/Dis	12[illegible]	1L HDPE	Filtered for Dis.	
Hg Tot/Dis	12[illegible]	250ml HDPE	Filtered for Dis.	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-151A	Date	3/11/05
Sample: ID	SY-PL2-151A	Field Team: (Initials)	JB / TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.48
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	1222
End Time	1345
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1226	.1	6.22	38	mS/m	552	.84	14.9	-12	cloudy
1229	.4	6.13	37		450	.53	14.9	-15	cloudy
1232	.7	6.04	36		303	.32	14.7	-18	cloudy
1235	1	5.96	35		225	.23	14.8	-19	cloudy
1238	1.2	5.93	34		141	.20	14.8	-21	cloudy
1241	1.5	5.89	34		96.7	.18	14.7	-20	clearing
1244	1.8	5.89	33		64.7	.18	14.6	-23	clear
1247	2.1	5.89	33		35.2	.18	14.6	-24	clear
1250	2.5	5.91	33		26.5	.20	14.5	-27	clear
1253	2.8	5.92	32		21.5	.21	14.5	-29	clear
1256	3	5.94	31		15.6	.20	14.6	-30	clear
1259	3.2	5.96	31		15.9	.20	14.6	-32	clear
1302	3.5	5.98	32		14.6	.20	14.6	-34	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1300	40mL VOA		
Metals (Total/Diss)		1 L HDPE		
LL Hg (Total/Diss)		250mL HDPE		
Chr VI		250mL HDPE		
Nat'l Attenuation		Various		

End Time 1345

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Fe Iron 7.2

Notes Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	Y-2-[illegible]A	Date	[illegible]
Sample: ID	SY-02-[illegible]A	Field Team: (Initials)	[illegible]
Field Conditions	[illegible]		

Purge Information

Well Diameter (in.)	2
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.06
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	0737
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
0743	.14	6.61	85	91.7	.37	[illegible]	50	Clear
0746	.34	[illegible]	87	72.0	.36	[illegible]	2	Clear
0749	.54	6.71	90	64.6	.35	[illegible]	[illegible]	Clear
0752	.74	6.73	90	51.1	.27	15.6	-76	Clear
0755	.94	6.74	[illegible]	38.6	.22	15.6	-87	Clear
0758	1.2	6.75	91	39.2	.18	15.5	-96	Clear
0801	1.5	6.76	91	26.4	.14	[illegible]	-103	Clear
0804	1.7	6.77	91	20.9	.13	[illegible]	-109	Clear
0807	2.0	6.77	91	16.6	.12	[illegible]	-114	Clear
0810	2.2	6.77	91	12.0	.12	15.6	-117	Clear
0813	2.5	6.78	91	9.6	.11	15.6	-119	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	8/20/20 0820	[illegible] L VOA	HCl	[illegible]
Metals (Total/Diss)	8/20/20 0840	1 L HDPE	Filtered for Diss	[illegible]
[illegible] (Total/Diss)	8/20/20 0840	[illegible] L PE	Filtered for Diss	[illegible]

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-1068	Date	3/14/05
Sample: ID	SY-PL2-1068	Field Team: (Initials)	CBI TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.72
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other

Start Time	0908
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp	ORP	Appearance
0908	.1	6.61	91		39.0	1.62	15.7	-5	Clear
0911	0.3	6.60	91		33.9	1.07	15.9	-5	Clear
0914	0.5	6.60	91		31.2	0.98	16.0	-5	Clear
0917	0.8	6.61	91		29.7	1.17	16.1	-4	Clear
0920	0.9	6.61	91		27.8	1.23	16.1	-4	Clear
0923	1.2	6.60	92		25.7	1.25	16.2	-2	Clear
0926	1.5	6.61	93		23.5	1.12	16.2	-4	Clear
0929	1.8	6.63	93		21.7	0.95	16.2	-7	Clear
0932	2	6.63	95		17.5	0.76	16.3	-15	Clear
0935	2.3	6.64	96		14.8	0.62	16.2	-31	Clear
0938	2.6	6.65	96		12.0	0.50	16.2	-49	Clear
0941	2.7	6.65	96		10.0	0.41	16.2	-65	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1015	40mL VOA	HCL	
Metals (Totals/Dis)	1015	1L HDPE	Filtered for Dis.	
LL Hg (Totals/Dis)	1015	250mL BS	Filtered for Dis	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-106.6 Continued	Date	[illegible]
Sample: ID	SY-PL2-106.6	Field Team: (Initials)	TB / TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0944	3.0	6.65	97	mS/cm	9.38	0.35 mg/L	16.2°C	-75mV	Clear
0947	3.4	6.65	98		9.58	0.28	16.2	-85	Clear
0950	3.7	6.64	99		10.2	0.21	16.3	-91	Clear
0953	4.0	6.64	0.10	S/m	8.74	0.16	16.1	-97	Clear
0956	4.3	6.63	0.10		7.87	0.16	16.1	-101	Clear
0959	4.5	6.63	0.10		7.65	0.15	16.1	-105	Clear
1002	4.7	6.64	0.11		7.35	0.18	16.0	-108	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
See Previous Page				

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-106C	Date	3/14/05
Sample: ID	SY-PL2-106C	Field Team: (Initials)	JB/TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	11.54
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other : _____

Start Time	1022
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1026	1	7.36	3.0	S/m	38.3	0.61	17.1	-174	Clear
1029	1.3	7.43	3.0	S/m	96.0	0.52	17.3	-183	Clear
1032	.5	7.40	3.0		82.9	0.32	16.7	-191	Clear
1035	.8	7.40	3.0		62.8	0.25	16.7	-199	Clear
1038	1.1	7.41	3.0		46.0	0.13	16.7	-205	Clear
1041	1.4	7.41	3.0		23.0	0.09	16.7	-211	Clear
1044	1.7	7.41	3.0		16.7	0.08	16.5	-213	Clear
1047	2.0	7.41	3.0		13.8	0.08	16.5	-216	Clear
1050	2.3	7.40	3.0		12.0	0.08	16.4	-218	Clear
1053	2.6	7.41	3.0		11.4	0.09	16.4	-219	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1115	40mL VOA		
Metals (Total/Diss)	1115	1L HDPE		
Hg (Total/Diss)	1115	250mL OJ		

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-155A	Date	3/17/05
Sample ID	SY-PL2-155A	Field Team: (Initials)	JD/TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.03
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: :

Start Time	1140
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1147	.1	6.88	70	mS/cm	61.5	.33	17.1	-70	clear
1150	.3	6.77	68		45.5	.23	17.1	-80	clear
1153	.5	6.73	66		26.8	.17	17.1	-101	clear
1156	.8	6.73	63		15.9	.12	17.1	-114	clear
1159	1.1	6.75	62		16.9	.10	17.2	-123	clear
1202	1.4	6.77	60		14.2	.09	17.1	-130	clear
1205	1.7	6.78	60		13.5	.07	17.2	-137	clear
1208	2	6.80	59		13.2	.07	17.2	-143	clear
1211	2.3	6.82	59		12.1	.07	17.2	-147	clear
1214	2.6	6.83	59		9.8	.06	17.2	-151	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1230	40mL VOA	HCL	
Metals (Totals/Diss)	1230	1L HDPE	Filtered for Diss	
LL Hg (Totals/Diss)	1230	1L HDPE	Filtered for Diss	
SVOCs	1250	500mL Amber	—	
PCBs	1250	500mL Amber	—	
Nat'l Att Pb's	1250	Various	Various	
Hex Chrom	1250	250mL OJ	Filtered	

End Time 1230

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

[Fe²⁺] = 6.8 mg/L

[Fe²⁺]tmp = 7.0 mg/L

SY-PL2-155A @ 0700 is a dupe

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-155B	Date	3/14/05
Sample: ID	SY-PL2-155B	Field Team: (Initials)	JB/TK
Field Conditions	Sunny + Clear		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.72
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other:

Start Time	1338
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1342	.1	6.55	.23	7/m	25.8	0.38	18.2	36	clear
1345	.3	6.53	.23		25.0	0.21	18.1	-3	clear
1348	.6	6.56	.22		14.4	0.15	18.0	-37	clear
1351	.9	6.59	.22		11.8	0.12	17.9	-60	clear
1354	1.2	6.61	.22		11.5	0.11	17.8	-70	clear
1357	1.5	6.62	.22		12.1	0.10	17.8	-80	clear
1400	1.8	6.64	.22		11.1	0.10	17.7	-88	clear
1403	2.1	6.66	.22		11.8	0.10	17.7	-93	clear
1406	2.4	6.67	.22		11.6	0.10	17.7	-98	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1420			
Metals (Tot/Diss)	1420			
Hg (Total/Diss)	1420			
Nat'l Ath. P's	1420			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

[Fe2+] ≈ 6.4 mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-155C	Date	3/14/05
Sample: ID	SY-PL2-155C	Field Team: (Initials)	JB / TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	12.75
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	1437
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1442	.1	7.32	3.0	S/m	11.6	0.57	18.4	-143	Clear
1445	.3	7.37	3.1		32.3	0.25	17.8	-173	Clear
1448	.6	7.41	8.0		43.9	C.V	17.8	-183	Clear
1451	.9	-	2.9		35.7	0.12	17.4	-192	Clear
1454	1.2	7.41	3.0		35.9	0.07	17.3	-201	Clear
1457	1.5	7.41	3.0		27.6	0.07	17.3	-205	Clear
1500	1.8	7.42	3.0		26.8	0.06	17.2	-209	Clear
1503	2.1	7.42	3.0		25.3	0.06	17.2	-210	Clear
1506	2.4	7.42	2.9		23.5	0.06	17.2	-212	Clear
1509	2.7	7.42	3.0		22.9	0.06	17.1	-214	Clear
1512	3.0	7.42	2.9		24.3	0.06	17.0	-215	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1520	40mL VOA	HCl	
Metals (Total/Dissolved)	1520	1L HDPE	Filtered for Dis	
LL Hg (Total/Dissolved)	1520	250mL	Filtered for Dis	

End Time	1535

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PLZ-601A	Date	3/14/05
Sample: ID	SY-PLZ-601A	Field Team: (Initials)	JB / TK
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.75
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other. :

Start Time	1547
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1552	.1	7.18	64		46.1	0.44	16.8	-74	clear
1555	.3	7.00	61		33.2	0.34	16.7	-68	clear
1558	.5	6.82	59		24.5	0.21	16.7	-62	clear
1601	.8	6.75	60		20.6	0.15	16.6	-59	clear
1604	1.1	6.70	57		18.4	0.13	16.6	-57	clear
1607	1.4	6.67	55		18.5	0.11	16.6	[illegible]	clear
1610	1.7	6.64	53		17.2	0.10	16.6	-55	clear
1613	2	6.63	53		2.23	0.09	16.6		clear
1616	2.3	6.62	53		2.41	0.10	16.6	-55	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1630	40mL VOAs	HCl	
PCBs	1630	2 500mL Amber	—	
Metals (Total/Diss)	1630	1L HDPE	Filtered for dissolved	
LL Hg (total/diss)	1630	250mL CG	Filtered for dissolved	
Nat'l Attn. Pr	1630	Various	Various	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

$[Fe^{2+}] \approx 4.8$ mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	[illegible]	Date	[illegible]
Sample ID	[illegible]	Field Team: (Initials)	[illegible]
Field Conditions	[illegible]		

Purge Information

Well Diameter (in)	2
Well Depth (ft.)	
Initial Depth to Water (ft.)	0.52
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / (Peristaltic Pump) / Other: : _____

Start Time	0738
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0738	.1	6.53	75	mS/cm	25.0	1.11	12.6	133	Clear
0746	.3	6.68	75		16.0	0.63	12.5	127	Clear
0749	.5	6.77	75		10.1	0.36	12.5	122	Clear
0752	.8	6.84	77		6.13	0.22	12.5	118	Clear
0755	1.1	6.88	82		4.65	0.16	12.5	111	Clear
0758	1.4	6.93	87		3.51	0.14	12.5	107	Clear
0801	1.7	6.96	90		4.24	0.13	12.5	105	
0804	2.0	6.98	92		3.34	0.12	12.5	98	Clear
0807	2.3	[illegible]	94		5.13	0.13	12.4	92	Clear
0810	2.6	7.03	95		3.15	0.12	12.5	86	Clear
0813	2.9	7.03	96		3.48	[illegible]	12.6	80	Clear
0816	3.2	7.05	97		7.37	0.12	12.6	71	Clear
0819	3.5	7.06	97		[illegible]	[illegible]	12.6	65	[illegible]

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	0830	3 40ml VOA	HCl	
PCBs	0830	2-1gal Amber	—	
Metals (Total/Diss)	0830	2-1L HDPE	Filtered to 0.45 µm / Preserved	
Hg (Total/Diss)	0830	2-250mL CG	Filtered to 0.45 µm / Preserved	
Nitrate	0830	[illegible]		
Hexavalent Chromium	0830	250mL CG	[illegible]	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

[Fe2+] = 1.5 mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-1528	Date	[illegible]
Sample: ID	SY-PL2-1528	Field Team: (Initials)	[illegible]
Field Conditions	Cloudy		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.52
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other: : _

Start Time	0855
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0858	.1	7.04	.30	S/m	5.77	0.41	13.4	-14	clear
0901	.3	7.04	.31		5.16	0.20	13.6	-29	clear
0904	.6	7.04	.31		3.77	0.12	13.7	-45	clear
0907	.9	7.03	.31		3.31	0.10	13.9	-58	clear
0910	1.2	7.03	.31		3.93	0.12	13.9	-68	clear
0913	1.5	7.03	.31		3.0	0.15	14.0	-76	clear
0916	1.8	7.03	0.31		2.78	0.26	14.0	-87	clear
0919	2.1	7.02	0.31		2.91	0.30	14.0	-92	clear
0922	2.5	7.02	.31		2.86	0.31	13.9	-95	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	0930	3-40mL VOA	HCl	
PCBs	0930	2-250mL Amber	—	
Metals (Total/Diss)	0930	2-1L HDPE	HNO3 / Filtered for Dissolved	
[illegible] (Total/Diss)	0930	2-250mL [illegible]	[illegible] / Filtered for Dissolved	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	[illegible]	Date	[illegible]
Sample: ID	[illegible]	Field Team: (Initials)	[illegible]
Field Conditions	[illegible]		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	16.74
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	0947
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0951	.1	7.49	1.6	slow	12.6	2.10	13.7	-112	clear
0954	.3	7.53	1.6		15.3	0.73	13.5	-145	clear
0957	.6	7.54	1.6		12.6	0.21	13.5	-161	clear
1000	.9	7.55	1.6		8.9	[illegible]	10.5	-116	clear
1002	1.2	7.56	1.6		6.25	0.11	10.0	5.1	clear
1006	1.5	7.59	1.6		8.85	0.11	13.9	-130	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1030	3 40mL VOA	HCl	
Metals (Total/Diss)	1030	1 L HDPE	HNO3 / Filtered for Dissolved	
LL Hg (Total/Diss)	1030	[illegible]	Filtered for Dissolved	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-EC1B	Date	3/15/05
Sample: ID	SY-PL2-EC1B	Field Team: (Initials)	DB/JK
Field Conditions	Clear		

Purge Information

Well Diameter (in.)	2
Well Depth (ft.)	
Initial Depth to Water (ft.)	4.75
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / <Peristaltic Pump> / Other: :

Start Time	1050
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1053	.1	7.41	.19	S/m	33.7	2.10	15.9	-85	
1056	.3	7.05	.19		33.9	1.08	16.0	-70	
1059	.6	6.95	.20		29.6	0.79	16.1	-65	
1102	.9	6.93	.21	S/m	18.0	0.65	16.1	-65	
1105	1.2	6.95	.23		12.0	0.50	16.0	-68	
1108	1.5	6.95	0.25		9.64	0.31	15.9	-72	Clear
1111	1.8	6.95	0.24		9.32	0.25	15.9	-74	Clear
1114	2.1	6.95	0.24		8.82	0.21	15.8	-76	Clear
1117	2.4	6.95	0.24		8.90	0.20	15.7	-77	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1130	3-40mL VOA	HCl	
Metals (Total)	1130	2-1L HDPE	HNO3	
Metals (Diss)	1130	2-250mL CO	HNO3	
Sulfate/Sulfide	1130	Various		

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

[Fe2+] = 4.2 mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-OC2A	Date	3/15/05
Sample: ID	SY-PL2-OC2A	Field Team: (Initials)	SB/TK
Field Conditions	Cloudy		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft)	
Initial Depth to Water (ft.)	9.65
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other:

Start Time	1154
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1158	.1	6.72	.10	S/m	11.0	1.71	15.6	-19	clear
1201	.3	6.64	.10		11.6	0.63	15.6	-19	clear
1204	.6	6.62	.10		12.7	0.37	15.6	-22	clear
1207	.9	6.61	.10		8.6	0.19	15.6	-29	clear
1210	1.2	6.61	.10		7.5	0.15	15.6	-33	clear
1213	1.5	6.60	.10	S/m	7.9	0.12	15.6	-40	clear
1216	1.8	6.60	.10		7.4	0.10	15.6	-46	clear
1219	2.1	6.60	.10		9.0	0.09	15.6	-51	clear
1222	2.4	6.60	.10		8.6	0.09	15.6	-53	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1225			
SVOCs	1225			
PCBs	1225			
Metals (Total/Diss)	1225			
Hg (Total/Diss)	1225			
Mat'l Alkn Ps	1225			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Fe^{2+} 9.4 mg/L

Notes Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-6028	Date	3/15/05
Sample: ID	SY-PL2-6028	Field Team: (Initials)	JB/TK
Field Conditions	Windy / Partly Cloudy		

Purge Information

Well Diameter (in.)	2
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.85
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: _____

Start Time	1256
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
1300	0.2	7.01	80 mS/m	21.3	0.51	16.0	-51 mV	Clear
1303	0.5	7.05	80	17.7	0.34	16.0	-54	Clear
1306	0.8	7.07	80	14.9	0.21	16.0	-58	Clear
1309	1.1	7.08	81	13.6	0.16	16.0	-61	Clear
1312	1.4	7.08	82	13.0	0.16	16.0	-62	Clear
1315	1.7	7.07	82	13	0.14	16.0	-63	Clear
1318	2.0	7.07	82	10.0	0.13	16.0	-64	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1330			
Metals	1330			
LL Hg	1330			
Meth Alkan Pc	1330			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

$[Fe^{2+}] \approx 0.1$ mg/L

$[Fe^{2+}]_{Dup} \approx 0.1$ mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-603A	Date	3/15/05
Sample: ID	SY-PL2-603A	Field Team: (Initials)	JSB / TK
Field Conditions	Partly Cloudy, breezy		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft)	
Initial Depth to Water (ft)	10.12
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	1407
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1411	.1	6.86	.11	Slow	14.1	1.43	15.3	-1	cl
1414	.4	6.83	.11		12.0	0.54	15.3	-3	cl
1417	.7	6.82	.11		10.1	0.34	15.4	-7	clear
1420	1	6.82	.11		9.70	0.21	15.3	-11	clear
1423	1.3	6.81	.11		8.56	0.17	15.4	-16	clear
1426	1.6	6.83	.12		7.66	0.14	15.4	-21	clear
1429	1.9	6.83	.11		5.73	0.12	15.4	-24	clear
1432	2.2	6.83	.11		5.61	0.12	15.4	-28	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs / NWTPH-G	1445	40mL VOA	HCl	
SVOCs / PCBs / NWTPH-Dx	1445	250mL Amber		
Metals (Totals/Dis)	1445	1L HDPE	HNO_3 Filtered for Dis	
$CrVI$ (Totals/Dis)	1445	250mL OS	Filtered for Dis	
N, P, All Add. Param.	1445	Various		

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

[Fe2+] ≈ 5.2 mg/L

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-[illegible]	Date	3/15 05
Sample: ID	[illegible]	Field Team: (Initials)	JB/[illegible]
Field Conditions	Partly cloudy, windy		

Purge Information

Well Diameter (in.)	2
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.92
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other : _____

Start Time	15[illegible]8
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1534	0.3	7.08	0.11	S/m	15.6	0.88 mg/L	15.5	10 mV	Clear
1537	0.6	7.06	0.11	S/m	11.0	0.50	15.6	7	clear
1540	.9	7.05	0.11		8.43	0.28	15.6	5	clear
1543	1.2	7.06	0.11		1.53	0.27	15.5	4	clear
1546	1.5	7.04	0.11		2.24	0.19	15.6	4	clear
1549	1.8	7.01	0.11		6.65	0.14	15.6	5	clear
1552	2.1	6.99	0.12		7.71	0.13	15.5	5	clear
1555	2.5	6.97	0.12				15.5	5	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	1610	3-40mL VOA	HCl	
Metals (Total/Diss)	1610	2-1L HDPE	HNO3 Filtered for DS	
[illegible] (Total/Diss)	1610	2-250mL CS	Filtered for DS	Duplicate → SY-PL2-[illegible]BG-0700
Not[illegible] Parameters	1610	Various		

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

$[Fe^{2+}] \approx 2.5$ mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station		Date	
Sample: ID		Field Team: (Initials)	
Field Conditions			

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) . Submersible pump
Bladder Pump
Peristaltic Pump
Other: : _____

Start Time	
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PLZ-115A	Date	3/15/05
Sample: ID	SY-PLZ-115A	Field Team: (Initials)	TB/[illegible]
Field Conditions	cloudy		

Purge Information

Well Diameter (in.)	1"
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.55
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other: : _____

Start Time	1642
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1647	.1	6.26	21	mS/m	19.2	1.13	14.2	+54	clear
1650	.4	6.02	21		19.6	0.70	14.3	+60	clear
1653	.7	5.95	21		15.4	0.56	14.7	+65	clear
1656	.8	5.92	20		12.0	1.74	14.4	+84	clear
1659	.9	5.90	20		12.0	2.0	14.4	+86	clear
	1"	well	NOT	Much	water	16.5'	to	bottom.	
		air bub	bles in	hose					

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs/NWTPH-G	1745	5-40mL VOAs		
SVOCs/PCBs/NWTPH-Dx	1715	6		
Metals (Total/Diss)	1715			
LLHg (Total/Diss)	1715			
Nutr/Other PS	1715			

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

[Fe^{2+}] ≈ 0 mg/L

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-MW-C	Date	3/16 07
Sample. ID	SY-PL2-MW-C	Field Team: (Initials)	[illegible]
Field Conditions	Cloudy, windy, cool		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	6.94
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / (Peristaltic Pump) / Other:

Start Time	0753
End Time	0845
Total Gallons Purged	2

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0758	.1	7.19	2.22	S/cm	23.5	0.46	15.0	110	clear
0801	.3	7.24	2.22		21.0	0.21	15.6	20	clear
0804	.5	7.25	2.21		18.1	0.14	14.9	-74	clear
0807	.7	7.26	2.21		14.7	0.11	14.9	-106	clear
0810	.9	7.27	2.21		8.62	0.12	14.9	-127	clear
0813	1.1	7.28	2.21		7.06	0.12	14.8	-139	clear
0816	1.3	7.27	2.20		6.59	0.17	14.7	-149	clear
0819	1.5	7.27	2.20		6.74	0.17	14.8	-153	clear
0822	1.7	7.22	2.21		7.2	0.10	14.7	-158	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs	0830	3 40-mL VOAs	HCL	
Metals (Total/Diss)	0832	2-1L HDPE	HNO3 Filtered for Diss	
LL Hg (Total/Diss)	0830	2-250-mL CG	Filtered for Diss	

End Time 0845

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	P2-117A	Date	[illegible]
Sample: ID	SY-P2-117A	Field Team: (Initials)	[illegible]
Field Conditions	Cloudy, [illegible]		

Purge Information

Well Diameter (in.)	1
Well Depth (ft.)	17'
Initial Depth to Water (ft.)	9.59
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other:

Start Time	0857
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0904	.2	7.00	46.1	mS/m	208	1.25	13.4	-99	
0907	.3	6.56	45.7		184	0.81	13.2	-79	
0910	0.4	6.41	49.1		151	0.25	12.7	-67	
0913	0.45	6.35	50.6		118	0.40	12.3	-60	Clearing
0918	0.5	6.35	51.1		101	0.82	12.3	-57	
0921	0.55	6.31	53.1		81	1.67	12.3	-55	
0924	0.6	6.30	54.9		78.7	1.97	12.0	-53	
0927	0.65	6.28	55.3		158	2.06	11.8	-50	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs (8260B)	0945	5 - 40mL Vials	HCl	
SVOCs (8270D)		6 - 1L Amber bottles		
Metals (total/diss)		2 - 1L HDPE	Filtered for Diss Metals	
Hg (total/diss)		2 - 500mL	Filtered for Diss	
[illegible] PCBs		Various	Various	[illegible] = 5.6 mg/L

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

1" well VERY LOW Flow
0910 Well goes dry
[illegible] → 15.2 [illegible]

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-112A	Date	3/10/05
Sample: ID	[illegible]-112A	Field Team: (Initials)	TB/TK
Field Conditions	[illegible]		

Purge Information

Well Diameter (in.)	[illegible]
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.[illegible]
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: _____

Start Time	1002
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance
1006	.2	6.60	.107	5/m	7.21	1.21	13.5	[illegible]
1009	.4	6.69	.109		4.98	0.75	13.5	[illegible]
1012	.6	6.67	.109		6.19	0.25	13.6	[illegible]
1015	.8	6.70	.107		7.01	0.17	13.6	[illegible]
1018	1	6.71	.105		3.68	0.14	13.6	71
1021	1.3	6.71	.104		5.62	0.14	13.6	74
1024	1.6	6.71	.104		7.12	0.14	13.6	79

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOC/MTBE/TPH-G	1100	5-40mL Vials	HCl	
SVOC/PCB/MTBE/TPH	1100	6-Sterile Amber		
Metals Dissolved	1100	2-1L Poly	Filtered for Diss	
Total Metals Pb	1100	2-250mL OT	Filtered for Diss	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PZ-112B	Date	3/16/05
Sample: ID	SY-PZ-112B	Field Team: (Initials)	JB/TK
Field Conditions	Rain / Windy		

Purge Information

Well Diameter (in.)	2
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.5
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other : _____

Start Time	1210
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1215	.1	6.78	0.121	S/m	99.4	0.64 mg/l	13.6	-24	Little cloudy
1218	.3	6.74	0.123		53.3	0.26	13.6	-25	
1221	.5	6.79	0.121		67.	0.16	13.6	-20	Clearing
1224	.7	6.79	0.122		43.7	0.13	13.5	-31	Clearing
1227	1	6.78	0.122		36.8	0.10	13.4	-34	Clearing
1230	1.3	6.76	0.122		19.2	0.09	13.4	-36	Clearing
1233	1.6	6.77	0.123		13.9	0.08	13.5	-37	Clear
1236	1.8	6.76	0.123		15.7	0.08	13.5	-41	Clear
1239	2.1	6.76	0.123		13.4	0.07	13.5	-44	Clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs		3 40mL VOA	HCL	
Metals (total/diss)		2-1L Poly	HNO3 / Filtered for Diss	
LLHg (total/diss)		250mL CG	HCL; Filtered for Diss	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station		Date	
Sample: ID		Field Team: (Initials)	
Field Conditions			

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp	ORP	Appearance

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

End Time	

Comments / Exceptions:

Presence of floating product? ___ YES / NO ___ Presence of sinking product? ___ YES / NO ___

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL-113A	Date	2/16/05
Sample ID	SY-PL2-113A	Field Team: (initials)	[illegible]
Field Conditions	Windy/Rain		

Purge Information

Well Diameter (in.)	1"
Well Depth (ft.)	
Initial Depth to Water (ft.)	10.83
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other:

Start Time	1256
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp	ORP	Appearance
1303	.1	6.54	.106	S/m	32.6	1.04	13.9	-28	clear
1306	.3	6.50	.106		24.0	0.56	13.8	-26	clear
1309	.5	6.49	.106		18.2	0.57	13.9	-27	clear
1312	.7	6.52	.114		12.9	0.48	13.9	-29	clear
1315	.9	6.53	.118		9.8	0.42	13.9	-32	clear
1318	1.2	6.55	.118		7.0	.43	13.9	-35	"
1322	1.5	6.57	.119		7.2	.43	13.9	-37	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs/Aromatics	1345	5-40mL VOA	HCl	
SVOCs/PCBs/Aromatics	1345	6 [illegible]		
Metals (Total)	1345	2-1L HDPE	HNO3 Filtered for Dissolved	
Metals (Total)	1345	2-250mL CS	Filtered for Dissolved	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	[illegible]	Date	[illegible]
Sample: ID	[illegible]	Field Team: (Initials)	[illegible]
Field Conditions	[illegible]		

Purge Information

Well Diameter (in)	1
Well Depth (ft)	
Initial Depth to Water (ft.)	[illegible]
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other : _____

Start Time	1470
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1416	.1	6.62	79.5	mS/m	15.6	1.05	12.8	-25	clear
1419	.3	6.57	81.8		78.6	0.93	12.8	-23	clear
1422	.6	6.58	84.8		79.4	0.66	12.7	-23	clear
1425	.9	6.55	86.9		28.1	0.53	12.7	-24	clear
1428	1.2	6.56	88.5		22.1	0.45	12.9	-26	clear
1431	1.5	6.57	91.6		18.6	0.43	12.9	-28	clear
1434	1.8	6.58	90.1		14.4	0.39	12.8	-31	clear
1437	2.1	6.58	90.3		11.2	0.38	12.8	-32	clear
1440	2.4	6.58	90.6		8.6	0.36	12.8	-36	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
VOCs / NWTPH-Gx	1450	5-40mL VOA	HCl	
SVOCs / PCBs / NWTPH-Dx	1450	6-500mL Amber	None	
Metals (Total/Diss)	1450	2-1L HDPE	Filtered for Diss	
Low Hg (Total/Diss)	1450	2-250mL CG	Filtered for Diss	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	[illegible]	Date	3/18/[illegible]
Sample: ID	[illegible]	Field Team: (Initials)	[illegible]
Field Conditions	[illegible]		

Purge Information

Well Diameter (in.)	1"
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: _____

Start Time	
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

End Time

Comments / Exceptions:

Presence of floating product? ____ YES / NO Presence of sinking product? YES / NO

Notes Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2 - 153A	Date	3/17/05
Sample: ID	Resin Parameters	Field Team: (Initials)	JB
Field Conditions	Sunny / cool		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.23
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: _____

Start Time	0705
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0710	.1	6.65	75.2	mS/m	28.6	0.92	15.2	-134	clear
0713	.4	6.69	72.5	mS/m	20.0	0.75	15.3	-120	
0716	.7	6.71	72.8	mS/m	17.1	0.60	15.2	-125	
0719	1	6.73	73.0	mS/m	10.0	0.32	15.3	-124	
0722	1.3	6.76	73.2	mS/m	7.1	0.20	15.3	-117	
0725	1.6	6.80	74.0	mS/m	6.0	0.16	15.3	-108	
0728	1.9	6.80	74.2	↓	5.1	0.16	15.3	-103	
0731	2.2	6.80	74.5	↓	5.2	0.15	15.3	-101	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
See previous				

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-153B	Date	3/17/05
Sample: ID	Boron Parameter	Field Team: (Initials)	JB
Field Conditions	Sunny / 60°F		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	9.95
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: :

Start Time	07
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station		Date	
Sample: ID		Field Team: (Initials)	
Field Conditions			

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other: : _____

Start Time	
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp.	ORP	Appearance

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

End Time	

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	DP-SY-11	Date	5/20/05
Sample: ID	SY-DP-~~SY~~-11	Field Team: (Initials)	JDB
Field Conditions	Partly Cloudy (Re-drill) - Need PCB Sample		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
(Peristaltic Pump)
Other:

Start Time	0755
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0802	.1	6.00	.096	s/m	300	.78	16.4	181	
0805	.4	6.06	.097		110	.72	16.3	123	
0808	.7	6.15	.097		50	.67	16.2	92	
0811	1	6.23	.098		22	.63	16.2	66	
0814	1.2	6.28	.097		12.7	.60	16.1	48	
0817	1.4	6.34	.097		6.6	.58	16.0	33	
0820		6.38	.097		5.9	.65	16.0	25	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
PCBs	0830	2 500mL AG	N/A	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

13' due to lack of water.

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	SY-DP-12	Date	5/20/05
Sample: ID	SY-DP-12-15	Field Team: (Initials)	JOB
Field Conditions			

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: :

Start Time	0840
End Time	
Total Gallons Purged	2

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0847	.2	6.40	.098	S/L	52.9	2.6	16.2	27	
0850	.5	6.35	.098	S/L	33.0	1.9	16.0	17	
0853	.7	6.37	.099	S/L	32.0	1.7	15.7	10	
0856	1.0	6.38	.099	S/L	30.0	1.5	15.7	5	
0859	1.2	6.40	.101	S/L	22.0	1.4	15.6	-3	
0902	1.5	6.41	.101	S/L	19.2	1.3	15.7	-11	
0905	1.7	6.42	.101		17.8	1.2	15.6	-18	
0908	1.9	6.43	.101		15.9	1.2	15.6	-21	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
PCB 8280	910	500mL Amber	NA	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments.

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-602A	Date	5/20/03
Sample ID	SY-PL2-602A	Field Team: (Initials)	JB
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump
Bladder Pump
Peristaltic Pump
Other

Start Time	0950
End Time	1020
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0953	.1	6.26	92.5	mS/m	11.1	1.00	15.8	63	
0956	.4	6.14	91.9	mS/m	10.6	.26	15.7	50	
0959	.7	6.15	91.5	mS/m	8.2	.19	15.7	40	
1002	1.0	6.18	91.5		7.6	.16	15.6	32	
1005	1.2	6.19	91.7		6.9	.15	15.6	24	
1008	1.5	6.20	91.7		6.5	.14	15.6	16	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
TPH Gx	1020	40mL VOA	HCL	
TPH Dx	1020	500mL AG	N/A	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PLZ-151A	Date	5/20/05
Sample. ID	SY-PLZ-151A	Field Team: (Initials)	JDB
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other:

Start Time	1030
End Time	1100
Total Gallons Purged	1.6

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
1036	.1	5.94	35.0	mS/cm	130	1.52	14.0	54	
1039	.4	5.87	33.6		110	.49	14.6	49	
1042	.7	5.87	33.7		76.2	.36	14.6	39	
1045	1.0	5.87	33.8		58.3	.27	14.6	37	
1048	1.3	5.88	34.0		34.1	.23	14.6	36	
1051	1.6	5.89	33.7		14.6	.21	14.6	37	
1054	1.9	5.90	33.6		11.1	.20	14.6	32	
1057	2.1	5.90	33.6		8.4	.20	14.6	31	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
SVOCs	1100	500mL AG	N.A	
PCBs	1100	500mL AG	N.A	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-152A	Date	5/12/05
Sample: ID	SY PL2-152A	Field Team: (Initials)	SDR
Field Conditions	Sunny		

Purge Information

Well Diameter (in.)	2"
Well Depth (ft.)	
Initial Depth to Water (ft.)	
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle): Submersible pump / Bladder Pump / Peristaltic Pump / Other: _____

Start Time	1120
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity	NTU	DO	Temp	ORP	Appearance
1122	.2	6.24	64.4 mS/cm	15.0	.86	14.4	65	
1125	.5	6.32	63.2	18.1	.60	14.3	54	
1128	.8	6.39	66.1	11.6	.45	14.3	46	
1131	1.1	6.45	66.6	9.6	.30	14.2	37	
1134	1.4	6.51	66.1	8.7	.21	14.1	32	
1137	1.7	6.55	67.0	8.1	.15	14.1	27	
1140	2	6.57	67.3	7.2	.15	14.1	23	

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments
SVOCs	1145	500mL Amb	N/A	

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes. Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

South Yard Data Gap Groundwater Sampling Field Data

Boeing Plant 2, Seattle/Tukwila, Washington

Station	PL2-312A	Date	
Sample: ID		Field Team: (Initials)	
Field Conditions			

Purge Information

Well Diameter (in.)	
Well Depth (ft.)	
Initial Depth to Water (ft.)	11.13 @ 0805
Depth of Water Column	
3 Casing Volumes	
1 Casing Volume	

Purge Method (circle) : Submersible pump / Bladder Pump / Peristaltic Pump / Other: : _____

Start Time	807
End Time	
Total Gallons Purged	

Time	Gallons	pH	Conductivity		NTU	DO	Temp.	ORP	Appearance
0810	.2	5.76	0.96	mS/cm	109	3.71	16.4	+171 mV	~~Clear~~ reddish / turbid
0813	.4	5.85	0.93		70.3	2.32	16.3	+157 mV	Reddish / turbid
0816	.6	5.95	0.94		47.0	1.55	16.2	+146 mV	"
0819	.8	5.96	0.94		36.0	1.44	16.2	+137 mV	clearing
0822	1.0	5.99	0.93		30.1	1.78	16.2	+128 mV	clearing
0825	1.2	6.02	0.92		28.3	2.04	16.2	+126 mV	clear
0828	1.5	6.02	0.92		24.7	2.26	16.2	+112	Clear
0831	1.7	6.03	0.92		23.8	2.37	16.2	+106	Clear
0834	1.9	6.04	0.92		21.6	2.46	16.2	+98	clear

Sample Information

Sample Method(s) (circle): Peristaltic pump / Submersible pump / Bladder Pump / Other

Analysis	Time	Bottle Type	Preservative/Filtration	Comments

End Time

Comments / Exceptions:

Presence of floating product? YES / NO Presence of sinking product? YES / NO

Notes: Where multiple visits are required to complete sampling, parameters are to be checked prior to sampling for each visit. Enter data under field comments

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location:
Job Number.
Date.
Page Number

Analytical Parameters:

Well #.

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location: [illegible] 54 Dutch Gap
Job Number: [illegible]
Date: 3/31/[illegible]
Page Number:

Analytical Parameters:

Well # [illegible]

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations
10 min surge								
9.78	21'	8:48	1/2	NA	NA	NA	NA	DIRTY WATER
~~7.75~~	21'	8:54	10	5.47	.11	450	[illegible]	Cloudy
10 min surge →								
		9.20	25	NA	NA	NA	NA	Cloudy water
10 min surge →			12					
		9.40	35	[illegible]	[illegible]	[illegible]	[illegible]	Cloudy
10 min surge								
		10:05	50	6.20	.12	100	[illegible]	Cloudy
		10:15	60	6.55	0.12	57	16.4	[illegible] Clear
		10:18	65	6.45	0.12	25	16.5	Slightly cloudy
		10:20	70	[illegible]	[illegible]	[illegible]	16.5	[illegible] Clear
		10:22	75	6.52	0.12	9	16.5	
		10:24	80	6.54	0.12	8	16.5	Clear

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location: Plant 2 [illegible]
Job Number: 17[illegible]5
Date: 1/3/05
Page Number:

Analytical Parameters:

Well #: 602B

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations
[illegible] → 9.45	21'	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
		11:53	10	NA	NA	NA	NA	Cloudy
10 min Surge →								
		11:15	25	6.94	.24	640	14.7	Cloudy
10 min Surge →								
		11:30	35	6.94	.24	520	14.6	Cloudy
		11:50	45	6.87	.24	260	14.6	Moderately Cloudy
		12:00	55	6.86	.24	152	14.6	Slightly Cloudy
		12:05	65	6.89	0.24	88	[illegible]	Slightly Cloudy
		12:15	75	6.86	0.24	46	14.6	mostly clear
		12:25	85	6.86	0.24	41	14.6	Mostly Clear
		12:35	95	6.88	0.24	9	14.6	mostly clear
		12:40	100	6.88	0.24	8	14.6	Slightly yellow clear
	50.15	12:45	105	6.89	0.24	16	[illegible]	

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location PL2-5Y Data Gaps
Job Number
Date: 3/2/05
Page Number:

Analytical Parameters:

Well #: 6C1A

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations
10 min purge 9.35	21'	1:05	0 gal	N/A	N/A	N/A	N/A	Very Cloudy
		1:15	10 gal	N/A	N/A	N/A	N/A	" "
10 min Surge →								
		1:35	30 gal	N/A	N/A	N/A	N/A	" "
10 min Surge →								
		1:55	70 gal	N/A	N/A	N/A	N/A	Cloudy
		~~2:05~~	~~10 gal~~	—	—	~~275~~	—	~~Moderately~~ Cloudy
		2:05	4 gal	6.47	79	260	17.0	Moderately cloudy
		~~2:15~~ 2:15	10 gal	6.57	74	131	17.0	Slightly cloudy
		2:20	17 gal	6.57	65	47	17.0	Slightly yellowish clear
		2:25	22 gal	6.61	61	21	17.0	" " "
		2:30	67 gal	6.65	60	18.6	17.0	" " "
		2:34	72 gal	6.61	56	11.7	17.0	" " "
		2:38	77 gal	6.61	58	13.9	17.0	" " "
		2:41	82 gal	6.61	58	10.2	17.0	" " "
		2:45	87 gal	6.61	57	9.4	17.0	" " "
9.42		2:48	92 gal	6.61	57	9.5	17.0	" " "

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location [illegible] Analytical Parameters:
Job Number.
Date [illegible]
Page Number:

Well #: 60B

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations
9.41	27	[illegible]	—	N/A	N/A	N/A	N/A	[illegible]
		3:10	10 gal	N/A	N/A	N/A	N/A	[illegible]
10 min Surge →								
		3:35	20 gal	N/A	N/A	N/A	N/A	[illegible]
10 min Surge →								
		4:05	30 gal	NA →	→	→	→	Cloudy
		4:30	40 gal	NA →	→	→	→	[illegible]
		4:45	50 gal	N/A →	→	→	→	[illegible]
		5:00	60 gal	ND →	→	→	→	[illegible]
		5:10	70 gal	6.75	.31	230	14.8	[illegible]
3/4/05	8'	CONTINUE	Purging					
		[illegible]	80 gal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	180	14.3	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	160	[illegible]	[illegible]
9.38		100	[illegible]	7.43	0.33	140	[illegible]	[illegible]
[illegible]		180	7.30	0.32	120	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	7.34	0.33	100	14.5	[illegible]	[illegible]
[illegible]		220	7.25	[illegible]	[illegible]	14.5		[illegible]
10.55		240	6.93	0.33	72	[illegible]		

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location. Plant 2 SY Main Gaps
Job Number
Date. 3/4/05
Page Number

Analytical Parameters:

Well #: 603A

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations
9.48		11:58am	0					
		12:03PM	~5 gal	NA	NA	NA	NA	Very Cloudy
10 min Surge →								
		1211	~20 gal	NA	NA	NA	NA	Dark Silty
10 min Surge →								
		1225	~30 gal	NA	NA	NA	NA	Dark Silty
10 min Surge →								
		1240	~35 gal	NA	NA	NA	NA	Dark Silty
		1255	~55 gal	6.50	.13	600	16.2	Silty
		1305	~70 gal	6.80	.13	53	16.2	Clearing
		1315	~85 gal	6.78	.13	9	16.2	Clear
		1320	~90 gal	6.78	.13	5	16.2	Clear
		1325	~95 gal	6.78	.13	6	16.2	Clear
10.23								

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location: PLANT 2 SY Data Gaps Analytical Parameters
Job Number: 17507.2
Date: 3/22/05
Page Number:

Well #: 603B

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations
9.42		1330	5 gal	NA	NA	NA	NA	Dark Silty
10 min	Surge →	1335						
		1355	15 gal	NA	NA	NA	NA	Cloudy
10 min	Surge →							
		1405	25 gal	NA	NA	NA	NA	Cloudy
10 min	Surge →							
		1425	35 gal	NA	NA	NA	NA	Cloudy
		1435	45 gal	6.80	.23	320	14.9	Cloudy
		1445	55 gal	6.87	0.23	240	14.8	Cloudy
		1452	65 gal	6.93	0.23	120	14.8	Cloudy
		1500	75 gal	6.86	0.23	98	14.7	Cloudy
		1510	90 gal	6.90	0.23	110	14.7	Cloudy/turbid
		1525	115 gal	6.93	0.23	130	14.7	cloudy
		1550	160 gal	6.93	0.23	130	14.6	Cloudy/yellow
		1605	175	6.92	0.23	120	14.6	cloudy/yellow

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location
Job Number:
Date:
Page Number:

Analytical Parameters

Well #:

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location:
Job Number:
Date:
Page Number:

Analytical Parameters:

Well #:

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations

ENVIRONMENTAL PARTNERS INC

Ground Water Developing Field Measurements Record

Job Name/Location:
Job Number:
Date:
Page Number:

Analytical Parameters:

Well #:

Depth to Water	Depth of Well	Time	Volume Purged	pH	Cond. (µmhos/cm)	Turbidity	Temp. (°C) probe:	Visual Observations

X002.14.1

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Boeing - Plant 2 - South Yard
Data Gaps
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Boeing Plant 2 - South Yard

2/28/05 - On-site @ 6:50 am to drill a total of 6 borings and 12 direct push probes. 3 of the borings will be completed to approx 21 feet. The other 3 are to be completed to approx. 50 feet. Direct push probes will be completed later in the week

1st Boring (SY-PL2-603B) - Drilling began @ 8:20 am
Well set at 50'
No industrial samples ecologic logging only, sampling every 5'

Sample	Blows
5'	17-18-9 (27)
	Refusal @ 5'
10'	3-2-2 (4)
15'	5-0 (5)
20'	2-3-5 (8)
25'	6-12-12 (24)
30'	6-12-13 (25)
35	4-8-12 (20)
40	8-12-14 (26)
45	8-8-8 (16)
50	9-12-14 (26)

2/28/05

Boring SY-PL2-603B
Completed to 50' @ 9:30 am
Cascade setting well

2nd Boring SY-PL2-603A
Drilling Begun @ 1:10 pm

Sampler	Blows		Sample ID	Time
0-1.5	10-29-30	(59)	SY-PL2-603A-1.5	1:15pm
3.5-5	14-22-26	(48)	SY PL2-603A-5	1:27pm
8.5-10	11-17-18	(35)	SY PL2-603A-10	1:38pm

Boring Complete @ 1:50pm
Well set @ 21 feet
Logged samples onto COCs, restocked supplies then went to lab to deliver samples. Off-site @ approx. 3:30pm

3/1/05 Begin Boring @ 8 am

Starting w/ SY-PLZ-602B to 50'
Geologic Sampling only in this boring

Depth	Blows	PPm
5	3-3-2 (5)	0
10	3-4-5 (9)	0
15	4-4-5 (9)	0
20	5-15-7 (22)	0
25	15-16-20 (36)	0
30	15-20-25 (45)	0
35	6-13-15 (28)	0
40	3-3-6 (9)	0
45	5-9-15 (24)	
50	4-9-10 (19)	

Boring Terminated @ 50', well set
Completed @ 9:00 am
Cascade continue setting well until
approx. 11:00 am casing until 11:30 am

Break for lunch - 11:30 - 12:00

3/1/05

2nd Boring of day is to install
a 21' Well. Analytical samples
will be collected from 0-1.5', 3.5-5'
and 8.5-10' bgs. Analyte tested
for include; VOCs, SVOCs, PCB, metals

Begin drilling SY-PLZ-602A at 12:00pm

depth	Blows	PPm	Sample ID	Time
0-1.5	3-12-12	1.4	SY-PLZ-602A-1.5	12:12
3.5-5	5-5-5	1.4	SY-PLZ-602A-5	12:17
8.5-10	3-5-5	0.7	SY-PLZ-602-10	12:19

Sampling Complete @ 12:30pm
Well being constructed - completed @ 2:00pm

3/1/05 3rd Boring in a 21' well.
Well ID is SY-PLZ-601A begin @ 2:15pm

depth	Blows	PPm	Sample ID	Time
0-1.5	3-12-13 (25)	0.0	SY-PLZ-601A-1.5	2:27
3.5-5	5-5-4 (9)	0.3	SY-PLZ-601A-5	2:32
8.5-10	3-3-2 (5)	0.0	SYPLZ-601A-10	2:35

MS + MSD were taken for VOCs on the 5'
sample. One equipment blank for VOCs on
the 10' sample.
Drilling and Sampling completed at
2:50pm. Drillers setting well.

3/1/05

Logged samples onto COCs, restocked and delivered samples to lab. Offsite at 3:45pm

3/2/05

Onsite @ 7:20 to observe drilling of 50' well ID SY-PL2-601B. Drilling began @ 8am @ 8:15am, Drillers observed a 4" steel pipe. Cascade stopped over approx. 5' and re-drilled. Sample w/ Boeing called in the discovered pipe

depth	Blows	PPM
5'	3-2-1 (3)	0
10'	3-2-3 (5)	0.3
15'	2-2-2 (4)	0
20'	5-8-8 (16)	0
25'	6-8-8 (16)	0.2
30'	6-12-20 (32)	0.2
35'	5-7-7 (14)	0.4
40'	7-6-7 (13)	0.2
45'	5-6-7 (13)	0
50	7-4-7 (11)	0

drilling and sampling completed at approx 9:30am, Cascade setting well at 50'

This boring had geologic logging only.

3/3 on-site @ 8 am to assist EPI Develop wells 601A-603B. Submitted samples to lab at end of day

3/7/05 - Onsite @ 7:15 am to log D.P borings and collect analytical samples of soil. Began drilling @ SY-DP-5 A Vacuum truck arrived @ 8:30 am to air knife the upper 5' from borings DP6 - DP4. I hand augered to collect soil samples from these boring at the 0-1' + 4-5' intervals. This task was completed while SY DP 5 was being purged. Continued sampling + logging SY-DP-3 @ 11:00 am. Sampled + logged SY DP-2 from 5-15' at 12:45 pm (resumed sampling @ the 9-10' interval). Sampled + logged DP-6 from 5-15' @ 1:30 pm (sampled from 9-10' interval). Sampled + logged SY-DP-8 from 5-15' @ 3:00 pm. Sampled and logged SY-DP-4 ~~from~~ @ 9 am. Sampled + logged SY-DP-7 at approx. 4:30 pm. Water sampling completed @ approx 5:45 pm, submitted samples to lab.

3/8/05

On-site to log direct push borings and collect soil samples. Began drilling at DP-SY-1. 1st sample DP-SY-1-1 had no recovery so we stepped over 1 foot and resampled. Last soil sample collected @ approx 8:00am. Water being purged and sampled by EPI. Water sampling complete at approx 9:15am. Moved to DP-SY-9 for soil sampling and logging. Last sample collected at approx 9:40am. Water purge and sample by EPI. Completed @ 10:45am

In general, all soils have had a ~~situation~~ profile: 0-5' reddish/brown silty SAND
~5-7' dark gray silty SAND to sandy silt
~7-8 dark gray/black silty clay
~8-15 dark gray/black silty sand with a greater coarse fraction at times.

The depth ranges of each soil type varied by a foot or two in each boring. In general, the upper 5-7 feet appeared to be

3/8/05

fill derived from dredging spoils. The contact between the fill and native silts and sands was hard to determine because the fill consisted of the same materials as the native.

Begin logging and sampling DP-SY-10 @ 11:00am. Water sampling completed at 12:30pm.

Begin logging + sampling DP-SY-11. Water completed @ 1:30pm

Begin logging + sampling DP-SY-12 Soil sampling completed @ 2:00pm. I moved over to SCL Power Pole to collect soil samples while EPI collect water @ DP-SY-12. Sampling complete @ 2:30, logged soils until 3pm. Sampling complete for SYDG-

Delivering samples to lab.