QUARTERLY PROGRESS REPORT
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

TO: Darryl Luce, USEPA
Thomas Andrews, NHDES
Warren Diesl, AECOM Environment

FROM: Work Settling Defendants (WSD)
prepared by Mike Webster and Christene Binger, GeoInsight, Inc.

DATE: April 10, 2011

Christene Binger

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RE: Quarterly Progress Report

REPORTING PERIOD:

__X__January to March – Due April 10th
_____April to June – Due July 10th
_____July to September – Due October 10th
_____October to December – Due January 10th

I. PROGRESS REPORT OVERVIEW

For these Quarterly Progress Reports, representatives of the United States Environmental Protection Agency (USEPA) and New Hampshire Department of Environmental Services (NHDES) will be collectively referred to as the "Agency(ies)." Remedial Design (RD) and Remedial Action (RA) activities are being completed at the Dover Municipal Landfill Superfund Site by GeoInsight, Inc. (GeoInsight) and XDD, Inc. (XDD) at the request of the Executive Committee of the Work Settling Defendants (the "Group"). Dean Peschel, Environmental Projects Manager for the City of Dover, is the project coordinator on behalf of the Group.

As requested by Darryl Luce, USEPA Remedial Project Manager, the Quarterly Progress Report was developed to provide an overall summary of completed and ongoing activities. The First Quarterly Report that was submitted on January 10, 2009 included an overview of objectives and an overall summary of activities at the Dover Municipal Landfill. Going forward, Quarterly Progress Reports only include updates for ongoing RD and RA activities. As requested by USEPA, the progress report will be distributed via electronic PDF copies only.

II. OVERVIEW OF LANDFILL ACTIVITIES

This progress report focuses upon activities completed from January to March 2011. During this reporting period, activities were conducted associated with:

- Southern Plume Management of Migration (MOM) (summary attached);

SDMS DocID 482781

- Northwest Landfill Hot Spot Remedial Design and Remedial Action (summary attached); and

- Source Control Remedial Action (SCRA; summary attached).

A master schedule of anticipated activities for 2011 was developed to provide the Agencies and the Group with a consolidated, site-wide summary of activities and likely implementation schedule. The master schedule will be updated each quarter and is included as an attachment.

III. COMMUNITY RELATIONS PLAN

USEPA hosted a public meeting at the City of Dover Public Works Department on January 25, 2011 during this reporting period to provide the community with an update of Phase I SCRA construction activities that were completed at the Landfill in 2010 and Phase II SCRA construction activities planned for 2011.

IV. SUMMARY OF REMEDIAL ACTIVITIES

This section of the Quarterly Progress Report provides a summary of the estimated mass of volatile organic compounds (VOC) removed (to date) associated with ongoing remedial activities.

Activity	Pounds of VOCs Removed			
	2008	2009	2010	Total
Southern Plume MOM	4.5	4.0	4.3	12.8
Northwest Landfill Hotspot	0	17,603	22,525	40,128

V. ATTACHMENTS

- Master Schedule of Anticipated Activities - Year 2011; and
- Summary and Status of Activities (three attachments).

MASTER SCHEDULE OF ANTICIPATED ACTIVITIES - YEAR 2011
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
TOLEND ROAD
DOVER, NEW HAMPSHIRE

	2011											
	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SOURCE CONTROL												
Source Control Remedial Design												
Work Plan for Remedial Design (approved November 9, 2009)												
30% SCRD (approved April 15, 2010)												
75% SCRD (approved July 26, 2010)												
100% SCRD (approved September 30, 2010; final draft submitted December 29, 2010)												
Source Control Remedial Action												
Draft SCRA Work Plan (submitted December 29, 2010)												
Closure of Perimeter Ditch												
Construction of Ground Water Extraction (GWE) System												
Enhancement of Permeable Cover												
GWE System Start-up												
Northwest Landfill Hotspot Remedial Action												
Site Preparation Activities and Equipment Testing												
Baseline Sampling												
System Start Up												
Seasonal Operation												
Performance Monitoring												
System Shutdown												
Data submittals (with Quarterly Progress Reports)												
MANAGEMENT OF MIGRATION												
Southern Plume - Ground Water Extraction												
Pre-start up system equipment procurement and configuration modifications												
Baseline Gauging and Sampling												
System Start Up												
Seasonal Operation												
Performance Monitoring												
System Shutdown												
Data submittals (with Quarterly Progress Reports)												
OTHER RESPONSE ACTIONS												
Soil Vapor Intrusion												
Focused Monitoring during EMP Events												
Environmental Monitoring Plan												
EMP Program Proposed Modifications Summary												
Summary Report: Second Monitoring Event (Winter) Year 2010												
First Monitoring Event (Spring) 2011												
Second Monitoring Event (Winter) 2011												
Summary Report: First Monitoring Event (Summer) Year 2011												

SUMMARY AND STATUS OF ACTIVITIES – Q1 – APRIL 10, 2011
SOURCE CONTROL REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

- Phase I remaining earthwork activities were initiated on March 14, 2011 and completed on March 29, 2011; and
- Sargent Corporation was selected as the Phase II contractor.

2. Deliverables and Correspondence

The following deliverables were submitted or received by the Agencies:

- a Technical Memorandum regarding the hose pump field test was submitted on March 16, 2011;
- a Final Source Control Remedial Action (SCRA) Work Plan, including a Construction Stormwater Pollution Prevention Plan (CSWPPP) and Construction Quality Assurance Project Plan (CQAPP), was submitted on March 24, 2011.

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- kick-off meeting with Phase II contractor and the Agencies.
- contractor mobilization for Phase II activities; and
- initiation of Phase II activities.

4. Status of Activities

Reporting Schedule - Information regarding the SCRA will be included in the four Quarterly Progress Reports as specified in March 24, 2011 Final SCRA Work Plan.

5. Modifications - Modifications were not implemented during this quarter (Q4).

SUMMARY AND STATUS OF ACTIVITIES – Q1 – APRIL 10, 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

- preparation of the Annual Remedy Performance Report (attached);
- evaluation and planning of system modifications including replacing the water return lines extending from the extraction wells to the system manifold;
- coordinating seasonal system start-up preparation and baseline activities; and
- performing a comprehensive baseline gauging event on March 30, 2011.

2. Deliverables and Correspondence

The following deliverables were submitted or received by the Agencies:

- The Annual Remedy Performance Report for the 2010 operating season is attached.

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- performing a comprehensive baseline monitoring event during April 2011;
- seasonal system start-up – anticipated during the week of April 11, 2011;
- weekly system operation, monitoring, and maintenance activities;
- monthly sampling activities from wells and the frac tank; and
- on-going evaluation of system performance data.

4. Status of Activities

Reporting Schedule - Information regarding the Southern Plume MOM will be included in two of the four annual Quarterly Progress Reports as specified in September 26, 2008 100 Percent Design Report, consistent with the following reporting schedule:

-April to July activities will be included in the October Report
-August to November activities will be included in the subsequent April Report

Remedy Design:	Completed.
Remedy Construction:	100 Percent Complete.
Remedy Implementation Status:	Fourth system operating season to be initiated.

Mass Removal 2008:	4.5 pounds
Mass Removal 2009:	4.0 pounds
Mass Removal 2010:	4.3 pounds
Total Mass Removal	**12.8 pounds**

5. Modifications - Modifications were not implemented during this quarter (Q1).

ANNUAL REMEDY PERFORMANCE REPORT

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DATE: April 10, 2011
TO: Darryl Luce, USEPA; Tom Andrews, NHDES
FROM: Mike Webster, Christene Binger, and Shauna Little
RE: Periodic Remedy Performance Report – Implementation of 100 Percent Remedial Design, Southern Plume Management of Migration

REPORTING PERIOD

April to July_____ (Due October 10th)
August to November __X__ (Due April 10th)

A. INTRODUCTION

This Annual Remedy Performance (ARP) Report provides a summary of operation and maintenance activities associated with the Southern Plume ground water extraction (GWE) system for the period between August 1 and November 8, 2010, and includes an annual remedy performance and system optimization evaluation. The GWE system was designed and installed as part of the Southern Plume Management of Migration (MOM) Remedial Action (RA) for the Dover Municipal Landfill Superfund Site. Section B of this report presents a summary of operational information for the period from August 1 and November 8, 2010. Section C presents monitoring data for the entire 2010 pumping season. Section D presents the annual remedy performance summary, and Section E presents optimization information.

B. ACTIVITIES (August 1 through November 8, 2010)

i. Pumping Periods

- In general, the GWE system operated between August 1 (last day of the previous reporting period) and November 8, 2010 (the end of the 2010 pumping season). Intermittent brief periods (i.e., hours to several days) of system downtime were associated with pump maintenance and repair, high water alarm in the fractionation (frac) tank, and a tripped ground fault interrupter. Information regarding system operation is presented in the following section of this report. Table 1 summarizes pumping periods for extraction wells MW-206(I) and SB-4D since the GWE system was installed in November 2007.

- During this reporting period, wells MW-206(I) and SB-4D extracted ground water at an average rate of 0.8 and 0.7 gallons per minute (gpm), respectively. The total flow rate for the GWE system, ranged from 0.6 (one extraction well operating) to 2.0 gpm (both extraction wells operating). Additional information regarding GWE system flow rates observed during the 2010 pumping season is summarized in Table 2 (modified from

Table 2 of the Southern Plume Remedial Action MOM Operation and Maintenance Plan [SPRA O&M Plan]).

ii. GWE System Operation and Maintenance

- During periods of GWE system operation, O&M activities were performed on a weekly basis. GWE system operational history for the 2010 pumping season is recorded in Table 2. Maintenance of GWE system components was generally conducted according to manufacturer's specifications and is summarized in the Maintenance Log (Table 3 [modified from Appendix H of the SPRA O&M Plan]).

- The GWE system operated continuously during this reporting period; however, brief periods (i.e., up to three consecutive days) of unscheduled pump downtimes occurred. Downtimes during this reporting period were caused by iron and sediment fouling in the pump chamber(s), iron and sediment fouling in the water lines, frac tank high water alarm, and a tripped ground fault interrupter. System downtime was identified during weekly O&M visits, and necessary maintenance activities were typically completed by the conclusion of each site visit.

- Fouled pumps were removed from the extraction well(s), disassembled, brushed with steel wool, and occasionally soaked in a mild acid solution prior to resuming operation. Fouled influent water lines were disconnected and purged with pressurized air supplied by the on-site air compressor. To minimize operational downtime associated with pump fouling, a third pump was procured in 2009. Using the three pneumatic pumps on a rotating basis allows two pumps to be extracting ground water, while the third pump was repaired, cleaned, and/or soaked in the acid solution.

- On September 28, 2010, GeoInsight personnel observed that the system was not operating because of the high water alarm in the frac tank. The frac tank was emptied on September 29, 2010 and the system re-started.

- On October 19, 2010, GeoInsight personnel observed that the system was not operating because of a tripped ground fault interrupter (GFI). An extension cord that is used for the moisture drain on the compressor was identified as having tripped the GFI. The extension cord was relocated and the system was re-started on the same day.

- On September 21, 2010, Clean Harbors Environmental Services of Bow, New Hampshire re-developed extraction wells MW-206(I) and SB-4D, and monitoring well MW-208(I). A vactor truck was used to remove sediment that had collected at the bottom of the wells. The thickness of sediment removed during this event is presented below.

Well ID	Depth To Bottom (Before Vac Out)	Depth To Bottom (After Vac Out)	Thickness of Sediment Removed (feet)
MW-206(I)	43.25	52.90	9.65
SB-4D	45.12	46.25	1.13
MW-208(I)	46.25	51.40	5.15

NOTES: Measurements in feet. Well MW-206(I) includes a five-foot sump.

- Approximately 500 gallons of water and sediment were removed from the wells and transported to the frac tank for storage. Depth to bottom measurements were obtained at the end of the pumping season to monitor the relative rate of sediment accumulation in the wells. Additional sediment was not removed.

iii. Discharges

Since the installation of the GWE system in November 2007, approximately 820,411 gallons of ground water have been extracted from the pumping wells and transferred to the City of Dover municipal sewer system for treatment at the Publicly Owned Treatment Works (POTW). During this reporting period, approximately 119,953 gallons of ground water were extracted by the GWE system. GWE system effluent volume estimates are recorded in Table 2.

Extracted Ground Water Summary:

Total Volume 2007 - 2008:	264,588 gallons
Total Volume 2009:	258,068 gallons
Total Volume 2010:	297,755 gallons
Total Volume to Date:	**820,411 gallons**

iv. Hydraulic Monitoring

- A comprehensive hydraulic monitoring event was conducted on November 8, 2010 to evaluate hydraulic conditions during a period of system pumping. Wells that were included in the comprehensive hydraulic monitoring event are summarized in Table 4 (modified from Table 5 of the SPRA O&M Plan). The November 2010 gauging data were compared to "baseline" hydraulic conditions recorded on March 26, 2010 (i.e., before the start of the 2010 pumping season) to evaluate pumping versus not-pumping hydraulic conditions in the Southern Plume MOM RA area. Gauging data for the March and November 2010 events are summarized in Table 5. Refer to Section E of this report for additional information regarding the pumping versus not-pumping hydraulic analysis.

- In addition to semi-annual gauging events, continuous hydraulic influence of the GWE system is monitored using pressure transducers installed in key monitoring wells in the same stratigraphic interval as the pumping well (i.e., the Upper Upper Interbedded [UUI] unit), and in wells screened in the Upper Sand (US) and Lower Upper Interbedded (LUI) units (i.e., at elevations above and below the pumping interval). Quarterly downloading of continuous hydraulic monitoring data (i.e., transducer data) was conducted during this

reporting period on September 17 and December 8, 2010. Hydraulic data were recorded at 30-minute intervals in 9 transducers located in the vicinity of MW-206(I). During the 2010 season, pressure transducers were not installed in three monitoring wells (MW-204(IB), SB-D3(I), SB-10I) that had historically been utilized for continuous hydraulic monitoring. Evaluation of continuous hydraulic monitoring data indicated that horizontal hydraulic influence is minimal in the vicinity of monitoring wells MW-204(IB), SB-D3(I), and SB-10I. Therefore, two of these transducers are temporarily being utilized at other portions of the site and one transducer was decommissioned after mechanical failure caused by internal moisture damage. Also, the transducer installed in MW-206(S) was removed for a portion of the pumping season in 2010 to be utilized for pump testing at another portion of the site. Transducer data recorded between April 5, and December 8, 2010 are presented in Figures 1A, 1B, and 1C.

- Prior to the 2010 system start-up, a pressure transducer was installed in extraction well MW-206(I) to monitor drawdown. Average drawdown observed in the extraction well was between 2 and 4 feet during pumping periods. Transducer data recorded from MW-206(I) is presented in Figure 1A.

C. GROUND WATER MONITORING (Summary of 2010 Pumping Season)

i. Influent Water Quality Monitoring

Water samples were collected from sample ports located in the influent water lines at the system manifold. The influent water samples were typically collected on a bi-weekly basis and submitted to Absolute Resource Associates (ARA) formerly known as Resource Laboratories, Inc. of Portsmouth, New Hampshire for volatile organic compounds (VOCs) analysis by United States Environmental Protection Agency (USEPA) Method 8260 (including tetrahydrofuran [THF]).

THF is the VOC that was detected at the highest concentrations in the influent water samples. The concentrations of THF ranged from 1,300 to 3,700 micrograms per liter (ug/L) in the water samples collected from MW-206(I) and from 1,100 to 3,300 ug/L in water samples collected from SB-4D. Benzene concentrations ranged from 24 to 33 ug/L in water samples collected from MW-206(I) and from 30 to 42 ug/L in water samples collected from SB-4D.

Other VOCs that were consistently detected in the water samples included toluene, ethylbenzene, xylenes, chloroethane, and chlorobenzene. These VOCs were detected in the water samples at concentrations that did not exceed Interim Cleanup Levels (ICLs). In general, these data are consistent with data collected during the 2008 and 2009 operating season. However, methyl ethyl ketone (MEK) was detected in the water samples collected from wells MW-206(I) and SB-4D in April, May, and June 2010 and from well MW-206(I) in July and September 2010. The concentration of MEK ranged from 13 to 430 ug/L in well MW-206(I) and 14 to 74 ug/L in well SB-4D. MEK was not detected in water samples collected in 2008 and 2009. Analytical results for samples collected during the 2010 pumping season are summarized in Tables 6 and 7. Historical data (2008 and 2009) were presented in previous status reports. Laboratory analytical reports for influent samples collected during this reporting period are presented in Appendix A.

Influent concentrations of THF and benzene versus time for the 2008, 2009, and 2010 pumping seasons are illustrated in the attached Figures 2 (MW-206(I)) and Figures 3 (SB-4D).

THF and benzene data from each extraction well were analyzed for statistical parameters, including; peak maximum concentration, peak minimum concentration, mean concentration, and median concentration. Statistical parameters are presented on Figures 2 and 3. The statistical parameters will be calculated for each pumping season and utilized to evaluate concentration trends over time.

ii. POTW Compliance Monitoring

Water samples were collected from the frac tank on a monthly basis to evaluate compliance with Dover POTW requirements. The water samples were analyzed for the parameters consistent with the Dover POTW monitoring requirements summarized in Table 1 of the 100 Percent Remedial Design Southern Plume MOM report. Analytical results are reported to the POTW operator as they become available. To date, the POTW operator has reviewed these data and additional analyses have not been requested. Analytical results for samples collected during the 2010 pumping season are summarized in Table 8. Historical data (2008-2009) were presented in previous status reports. Laboratory analytical reports for frac tank samples collected during this monitoring period are presented in Appendix A.

iii. Mass Removal Estimates

Water samples were collected on a bi-weekly basis from the influent sample ports and submitted for VOC analyses (including THF). These analytical data were used to monitor constituent concentration trends over time and to estimate VOC mass removal to date. Calculations of mass removal were based upon the analytical data associated with bi-weekly VOC monitoring and the approximate volumes of extracted ground water based upon totalizer readings.

THF is the VOC that was detected at the highest concentrations in the influent water samples. The concentrations of THF in the influent water samples ranged from 1,100 to 3,700 ug/L. Other VOCs that were consistently detected in the water samples included benzene, toluene, ethylbenzene, xylenes, chloroethane, and chlorobenzene (Tables 6 and 7). These VOCs were detected in the water samples at concentrations that were typically 2 or more orders of magnitude lower than the THF concentrations. Consequently, THF represents the majority of VOC mass that has been removed by the GWE system.

Consistent with evaluations completed during the Pilot Study and the 2008 and 2009 pumping seasons, THF and benzene are the primary VOC constituents of concern (COCs) within the Southern Plume (i.e., the VOCs that have been detected in ground water at concentrations above applicable ICLs). Therefore, preliminary calculations of mass removal associated with the GWE system focused upon these two VOCs. These calculations indicate that approximately 4.0 pounds of THF and benzene (combined) were removed by operation of the GWE system during the 2010 pumping season. Approximately 12.5 pounds of THF and benzene have been removed since initiation of the GWE system in 2008. THF represents over 98 percent of the mass removed.

Mass removal calculations associated with THF and benzene are summarized in Table 9 (modified from Table 5 of the 100 Percent Remedial Design Southern Plume MOM report). These mass removal calculations will be updated as the GWE system is operated during subsequent pumping seasons.

iv. Ground Water Monitoring

On April 1, 2010, a ground water sampling event was conducted to evaluate baseline ground water conditions prior to GWE system start up. The ground water samples were collected from monitoring wells located upgradient, within, and downgradient of the Southern Plume MOM RA area. Wells included in the annual baseline monitoring event are summarized in Table 4 and include wells positioned in the US, UUI, and LUI stratigraphic units.

Quarterly performance monitoring events were conducted on July 20, September 10, and December 8, 2010. The quarterly performance monitoring events were focused upon monitoring wells located within the portion of the Southern Plume MOM RA area that is expected to be most influenced by extraction well MW-206(I). Wells included in the focused ground water monitoring event are summarized in Table 4 and include wells located within the same stratigraphic unit as the pumping well. Tables that summarize baseline and quarterly performance monitoring ground water analytical results are included in Appendix B and laboratory analytical reports are included in Appendix A.

Data collected during the 2010 baseline and quarterly performance monitoring events were used to evaluate system performance. Additional information regarding the distribution of dissolved VOCs in the Southern Plume MOM RA area over time is presented in Section D of this report.

D. REMEDY PERFORMANCE – ANNUAL REPORT

i. Overview and Objectives

The Southern Plume GWE system was installed as part of the Southern Plume MOM RA and was designed to control the migration of the western lobe of the Southern Plume (i.e., the portion of the Southern Plume that is potentially migrating towards the Bellamy Reservoir). The GWE system pumps ground water from two extraction wells located within the Southern Plume Study Area; MW-206(I) is located near the leading edge of the plume and is utilized to control potential migration of the plume towards the Bellamy Reservoir, and SB-4D located near the toe of the Landfill is utilized to "cut off" the source of impacts contributing to the Southern Plume.

As requested by USEPA, periodic evaluations will be conducted to assess the performance of the GWE system with regard to the intended remedial objectives. Monitoring data obtained while operating the Southern Plume GWE system was used in conjunction with characterization data (i.e., data collected before the GWE system was installed) to evaluate remedial system performance. The approach used to evaluate performance follows the USEPA guidance described in "General Methods for Remedial Operations Performance Evaluations," USEPA Report EPA600/R-92/002 (dated January 1992), "Elements of Effective Management of Operating Pump and Treat Systems" USEPA (Office of Solid Waste and Emergency Response)

Report OSWER 9355.4-27FS-A (dated November 2002), and "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report," USEPA Report EPA600/R-08/003 (dated January 2008).

ii. Extraction Well Performance

Extraction well performance is evaluated during weekly O&M site visits and routine maintenance is conducted periodically to maintain adequate well performance. Infiltration of fine-grained sediments has been the primary cause of performance issues for the Southern Plume GWE extraction wells (particularly in MW-206(I)). Depth to bottom measurements are collected frequently to monitor sediment accumulation at the bottom of the extraction wells and sediment is vacuumed out of the wells (using a vac truck or manual methods) as needed. During the 2010 season, accumulated sediment was removed from the extraction wells on April 22, 2010 (prior to system start up) and September 21, 2010. Approximately 10 to 15 feet of sediment was removed from the bottom of MW-206(I) and 1 to 5 feet from the bottom of SB-4D during each event. Approximately 5 feet of sediment was removed from the bottom of monitoring well MW-208(I) during the September 2010 event. The extraction wells will continue to be monitored for sediment accumulation and vacuumed out on an as-needed basis.

iii. Pump Performance

Pneumatic pump performance is evaluated during O&M site visits and routine maintenance is conducted periodically. Pump failure caused by sediment accumulation, scaling, and corrosion have contributed to system downtime. To mitigate fouling issues, the pumps are removed and inspected on a weekly basis, and are typically cleaned on a monthly basis. Additionally, a third pneumatic pump was procured in 2009 to minimize system downtime during periods of pump maintenance and repair. In preparation for the 2010 pumping season, one pneumatic pump was returned to the manufacturer to be refurbished and rebuilt with corrosion-resistant 316 stainless steel components. The two remaining pumps were refurbished in preparation for the 2011 pumping season.

Pump fouling is likely caused by the air/water interaction typical of pneumatic pumping systems. Use of a pneumatic pumping system for the Southern Plume MOM RA was selected because of the lack of an electrical supply infrastructure in the Southern Plume Study Area. Alternative pumping systems may be evaluated during subsequent pumping seasons and "lessons learned" from the operation of the Southern Plume MOM RA were incorporated into the design criteria for the Source Control GWE system along the toe of the Landfill. However, based upon observation during the 2010 season, the pneumatic pumping system pumps are able to pump at a consistent rate within the design criteria of the Southern Plume MOM RA.

iv. Capture Zone Analysis

The approach used to evaluate capture follows the USEPA guidance described in "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report," USEPA Report EPA600/R-08/003 (dated January 2008). This approach consists of evaluation and convergence of multiple "lines of evidence" that include estimating the Target Capture Zone

(TCZ), estimating the required pumping rate to achieve target capture, evaluating hydraulic information and data, reviewing trends in VOC concentrations, and estimating the actual capture zone(s) of the remedial system.

Target Capture Zone

Information obtained during the Southern Plume Pre-Design Investigation (PDI) activities indicated that the majority of ground water impacts associated with the Southern Plume were located primarily within 400 feet of the toe of the Landfill, and that the leading edge of the plume (as defined by COC concentrations below ICLs) was located approximately 600 feet from the toe of the Landfill (approximately half of the distance from the north bank of the Bellamy Reservoir to the southwest toe of the Landfill). Information obtained during PDI activities also identified that extraction well MW-206(I) and the SB-B monitoring well cluster were located along the estimated axis of the portion of the Southern Plume that is potentially migrating in the direction of the Bellamy Reservoir. In the vicinity of well MW-206(I), the Southern Plume is located within the UUI stratigraphic unit at depths of 35 to 45 feet BGS, and the plume is approximately 200 to 300 feet wide. These dimensions define the approximate TCZ for the Southern Plume MOM GWE system.

Preliminary Capture Zone Analysis

A preliminary capture zone analysis was presented in the October 10, 2009 Periodic Remedy Performance Report (Section D, pages 6 though 10). The evaluation included:

- calculating the pumping rate required to maintain target capture based upon plume dimensions and the estimated hydraulic parameters of the UUI unit;
- comparing target pumping rates to actual pumping rates;
- revising the existing hydraulic analysis presented in the 100 Percent Design Southern Plume MOM Report (August 2008) using data collected from the enhanced monitoring well network (i.e., network including the additional monitoring wells installed in November 2008);
- refining the extent of the theoretical capture zone based upon the typical pumping rate of the extraction well(s) and the hydraulic parameters calculated from a revised hydraulic analysis; and
- comparing the theoretical capture zone to the TCZ necessary to achieve the remedial objectives.

The April 2010 Annual Remedy Performance Report introduced additional lines of evidence that were evaluated to supplement the preliminary capture zone analysis. Additional lines of evidence included:

- using ground water gauging data to evaluate pumping versus not-pumping hydraulic conditions; and

- using trend and other appropriate statistical analyses to evaluate changes in ground water quality (VOC concentrations) within, adjacent to, and downgradient of the Southern Plume.

Data from these additional analyses were utilized to estimate the approximate extent of ground water capture based upon observed site conditions, and comparing the extent of actual capture to the TCZ identified for the Southern Plume MOM GWE system. The lines of evidence were used to calculate the dimensions of estimated capture.

Results of the capture zone analysis completed to date indicated:

- The pumping rate estimated to capture the TCZ that was based upon plume dimensions, updated estimated hydraulic parameters of the UUI unit, and extraction well characteristics (i.e., effective screen length) ranged from 0.6 to 1.2 gpm. The average pumping rate at each extraction well is approximately 0.7 gpm, and is within this range.

- The approximate width of the 2009 theoretical capture zone remained wider than the mapped width of the plume in the vicinity of well MW-206(I) (see "conclusions" section on page 13 for the 2009 theoretical dimensions). The theoretical capture zone evaluation was based upon the revised hydraulic analysis (2009) and indicated that the theoretical capture zone was similar (i.e., dimensions were similar) to the theoretical capture zone indicated in the preliminary capture zone analysis completed in 2008.

- The approximate width of the 2009 estimated capture zone was similar (i.e., dimensions were similar) to the theoretical capture zone indicated in the preliminary capture zone analysis completed in 2008 and 2009.

Additional Lines of Evidence

Additional lines of evidence were evaluated to supplement the capture zone analysis completed during the 2008 and 2009 pumping seasons. Additional lines of evidence included using ground water gauging data and gradient control pairs to evaluate pumping versus not-pumping hydraulic conditions. Data from these additional analyses were utilized to estimate the approximate inflection point of capture during pumping conditions. The extent of actual capture was compared to the TCZ identified for the Southern Plume MOM GWE system and the 2009 estimated capture zone. The evaluation is presented below. The lines of evidence will continue to be evaluated based upon the data collected through subsequent operating seasons.

Ground Water Elevations

Ground water elevation measurements collected during comprehensive ground water gauging events were used to evaluate pumping versus not-pumping hydraulic conditions in the Southern Plume MOM RA area. The contour maps were created using computer generated linear interpolation. The November 8, 2010 figure (pumping conditions) did not include elevation data

for MW-206(I) because of possible well inefficiencies and losses often associated with active extraction wells. Ground water contour maps are illustrated on Figure 4 (March 26, 2010 for non- pumping conditions in the UUI unit) and Figure 5 (November 8, 2010, for pumping conditions in the UUI unit).

Under ambient conditions (i.e., non-pumping conditions), ground water in the Southern Plume Study Area UUI unit generally flows from the toe of the Landfill towards the south and southeast, with horizontal hydraulic gradients that typically range between 0.002 feet per foot (ft/ft) (near to the Landfill toe) to 0.01 ft/ft (near the Bellamy Reservoir). Under pumping conditions, the direction of ground water flow and horizontal hydraulic gradients remain generally consistent with non-pumping conditions in the southern portion of the Study Area (i.e., hydraulically downgradient of the area of influence of pumping well MW-206(I)). In the vicinity of MW-206(I) and in portions of the Study Area that are hydraulically upgradient of MW-206(I), the ground water exhibited flatter horizontal hydraulic gradients (0.001 to 0.002 ft/ft) and an observable ground water flow inflection towards the pumping well.

To evaluate the extent of capture, analysis of ground water elevation data was focused on monitoring wells positioned in the same depth interval (approximately 35 to 45 feet BGS) and located near the estimated area of influence of extraction well MW-206I. Contour accuracy is highest to the west of extraction well MW-206(I), where the enhanced monitoring well network was installed in late 2008. Therefore, analysis of capture based upon water level measurements was focused on the area of highest accuracy (i.e., west of the extraction well), including monitoring wells MW-207(I), MW-208(I), MW-209(I), and SB-10I. Horizontal capture to the east of the extraction well was estimated based upon data collected west of the extraction well.

In addition to visual evaluation of ground water contour maps, the extent of capture was evaluated based upon horizontal water level pairs (i.e., gradient control pairs). Comparing the ground water elevation observed at MW-209(I) during pumping conditions to ground water elevations at MW-208(I) and MW-207(I), indicates inward ground water flow (i.e., flow towards the extraction well) during pumping. In contrast, the gradient observed between MW-209(I) and SB-10(I) (located further to the west) indicates ground water flow away from extraction well MW-206(I).

Based upon data from these horizontal gradient control pairs, a flow boundary exists in the vicinity of MW-209(I), likely correlating to the extent of capture in that vicinity. These results are consistent with data collected during the 2009 pumping season and results of capture zone analysis. Ground water elevation data for monitoring wells located west of the extraction well are presented below. A cross section of pumping versus non-pumping hydraulic conditions observed during the 2009 and 2010 season is included on Figure 6.

WELL ID	SB-10I	MW-209(I)	MW-208(I)	MW-207(I)	MW-206(I)
Distance to Pumping Well	**352**	**144**	**56**	**33**	**0**
		2009			
Water Elevation April 16, 2009 (non-pumping conditions)	145.67	146.58	146.62	146.63	146.48
Water Elevation October 6, 2009 (pumping conditions)	145.32	145.54	145.32	145.24	142.87
		2010			
Water Elevation March 26, 2010 (non-pumping conditions)	145.78	146.89	146.88	146.82	146.82
Water Elevation November 8, 2010 (pumping conditions)	144.97	145.48	145.35	145.27	144.07

South of the extraction well, hydraulic gradients between downgradient monitoring well SB-B2 (located adjacent to the estimated theoretical capture zone stagnation point) and monitoring well MW-207(I) indicated inward (i.e., northward) ground water flow towards the pumping well. Therefore, ground water capture downgradient of the extraction well likely extends to the area near SB-B2.

Because the site conceptual model and review of historical data do not anticipate significant vertical flow, vertical capture was not evaluated as part of this analysis. The conceptual model indicates that the impacted portion of the aquifer (i.e., the UUI; 35 to 45 BGS) has a semi-confining nature and heterogeneity and layering contribute to predominantly horizontal flow with Kh to Kv ratios in the UUI/LUI units in excess of 1000:1. Additionally, the effective length of the extraction well (screen plus two feet of sand pack above and below the screened interval) exceeds the vertical extent of impacts (as documented during Southern Plume PDI activities; see Section 6.2 of the June 2007 Draft Summary Report of Phase I Activities and Proposed Phase II Activities). Continuous hydraulic monitoring data collected from wells screened in the stratigraphic units above and below (i.e. the US and LUI) the target pumping unit (i.e. the UUI), indicate that vertical hydraulic influence did not likely occur during the 2010 season.

Preliminary Ground Water Quality Trend Analysis

Ground water quality data are obtained during annual baseline and quarterly performance monitoring events. Data collected during the 2010 annual baseline and quarterly performance monitoring events were combined with historical data to evaluate ground water quality trends in the monitoring wells expected to be most influenced by extraction well MW-206(I). Wells included in the performance monitoring events are summarized in Table 4. Please note that this analysis is based upon the limited analytical data available for review at the time of this report. The preliminary analysis does not account for possible seasonal fluctuations, discrepancies in field or laboratory procedures, or other potential influences not related to the operation of the GWE system.

Plots of THF and benzene (primary VOC COCs) concentrations in ground water samples obtained from performance monitoring wells MW-200(I), MW-207(I), MW-208(I), MW-209(I), and SB-B2 over time are included in Appendix C. Concentrations of THF and benzene in monitoring wells MW-207(I) and MW-208(I), located approximately 33 and 56 feet west of extraction well MW-206(I) respectively, initially decreased following the 2010 seasonal start up and then slightly increased during the 2010 pumping season. THF and benzene concentrations detected in monitoring well MW-209(I), located along the lateral western extent of the plume, slightly increased during the 2010 pumping season. Concentrations benzene detected in monitoring well SB-B2(I), located approximately 75 feet hydraulically downgradient of extraction well MW-206(I) and near the estimated stagnation point of the theoretical capture zone, appear to be variable, but generally similar to concentrations detected since implementation of the Southern Plume MOM GWE system in 2008. THF concentrations detected in well SB-B2(I) appear to be decreasing since 2008. Concentrations of THF and benzene detected in monitoring well MW-200(I), located approximately 335 feet south of extraction well MW-206(I) (hydraulically downgradient), were stable during 2010.

USEPA guidance suggests that stable concentrations of the primary VOC COCs detected in ground water samples in monitoring wells may indicate that the wells are located within the capture zone and continue to be impacted by dissolved concentrations of VOCs migrating from hydraulically upgradient areas. Therefore, the relatively stable concentrations observed in MW-207(I) and MW-208(I) suggest that the capture zone extends to the area between MW-209(I) and MW-208(I). Downgradient of the pumping well, variable VOC concentrations observed in SB-B2(I) suggest that the GWE system is preventing the migration of dissolved impacts in the area south of the extraction well and that capture is being achieved between SB-B2 and extraction well MW-206(I).

Interpretation of concentration data related to capture may take several years because ground water flow velocities is the Southern Plume Study Area are generally slow (0.002 feet/day); therefore, on-going evaluation/interpretation of analytical trend data will be presented in subsequent Remedy Performance Reports. These evaluations will become more comprehensive as additional data becomes available and the data set can be analyzed for long-term trends in ground water quality. In addition, analytical data from each monitoring well during individual pumping seasons will be analyzed for statistical parameters, including; peak maximum value, peak minimum value, average, and median concentration. The statistical parameters will be calculated for each pumping season and utilized to evaluate concentration trends over time.

Horizontal Extent of VOCs Impacts

The horizontal distribution of VOCs in the Southern Plume Area was not evaluated as part of this capture zone analysis/performance evaluation. Mapping and comparing VOC distribution and concentrations over time within the Southern Plume Study Area will be presented when several successive years of ground water data are available for each performance monitoring well.

Conclusions

The dimensions of the theoretical and estimated capture zone (2009) and the area of estimated capture based upon continued evaluation of the additional lines of evidence discussed above are generally consistent with previous assessments. Theoretical and estimated capture zone (2010) is summarized as follows:

	Theoretical Capture	Estimated Capture
Downgradient stagnation point (X_o):	62 ft	60 ft
Width of capture near well (2* Y_{well}):	194 ft	180 ft
Width of capture upgradient of well (2*Y_{max}):	388 ft	320 ft

Based upon review of data collected to date, the estimated area of GWE system capture is sufficient to achieve the Southern Plume MOM RA objectives. Performance will continue to be evaluated on an annual basis and system modifications will be implemented, if deemed necessary.

E. SYSTEM OPTIMIZATION

Monitoring data obtained while operating the Southern Plume GWE system is used to evaluate system performance and identify possible opportunities to improve remedy effectiveness and efficiency. The evaluation includes review of information obtained from the Environmental Monitoring Program and remedial actions conducted elsewhere at the Site, including the Northwest Landfill air sparging/soil vapor extraction system and the Source Control GWE system along the toe of the Landfill.

Based upon the current understanding of conditions within the Southern Plume, possible system enhancements that will be periodically evaluated include:

- installing additional ground water extraction wells within the Southern Plume;
- modifying ground water extraction rates;
- evaluating use of alternative pumping systems;
- evaluating use of alternative pumping schedules (such as pulsed systems); and
- assessing the utility of possible system tie-ins with other remedies operating at the Site.

A review of monitoring data obtained during the 2010 operating season suggests that the GWE system is operating as designed and that there are no conditions that require immediate attention. Based upon observations during the 2008, 2009, 2010 pumping seasons, minor system modifications may be implemented for the 2011 season.

Prior to 2011 start up, the water return lines from extraction wells MW-206(I) and SB-4D to the system manifold will be replaced. The existing lines where experiencing frequent clogging during the 2010 season. Additionally, the lines were cut and removed from the Site to facilitate implementation of the SCRA Phase I activities. Black nylon lines will be replaced with clear high molecular weight polyethylene tubing to minimize cost and facilitate visual inspections.

F. DATA VALIDATION

i. Overview

Data validation was performed for laboratory analytical data sets prepared by Katahdin, ARA, and their subcontractors in general accordance with the USEPA Region I – New England Data Validation Functional Guidelines and the project Quality Assurance Project Plan dated March 2005. Data validation included review of data collected between August 1, 2010 (the first day of the reporting period) and December 8, 2010 (the end of the 2010 operating season). The data set consisted of three general types of data, each with a set of Data Quality Objectives (DQOs). The level of data validation (i.e., Tier I or Tier II) performed on each type of data was determined by evaluating the measurement performance criterion (MPC) required to meet the DQOs. The data types are summarized below:

Data Type	DQOs	Analyses	Data Validation Level
Influent	• evaluate concentration trends • calculate mass removal	VOCs + THF	Tier I
Frac Tank	• evaluate POTW compliance	Full Suite	Tier I
Ground Water	• evaluate concentration trends – performance monitoring	VOCs + THF Metals	Tier II

Tier I validation included a review of the sample delivery group (SDG) data reports to evaluate components of the report compared to the Tier I checklist. Tier II included a review of quality assurance and quality control (QA/QC) information. QA/QC information evaluated for the laboratory analytical reports included:

- extraction and analytical methods;
- quantitation limits;
- laboratory holding times;
- trip, equipment, field, and method blank analyses;
- field duplicate samples;
- matrix spike/matrix spike duplicate analyses (MS/MSD);
- surrogate recovery data; and

- laboratory control sample/laboratory control sample duplicate analyses (LCS/LCSD).

In addition, data validation included a review of field sampling methods including; sample handling, storage, and preservation. Data validation and QA/QC checklists were completed for the 11 SDGs submitted for laboratory analysis during the reporting period. Copies of the summary sheets are attached in Appendix D-1.

Analytical data presented in summary tables were manually checked by comparing laboratory reports with tabulated data to identify and correct transcription errors.

ii. Data Validation Results

Field QA/QC

A review of field QA/QC documentation identified preservation issues associated with the influent samples including elevated pH and/or elevated temperature. Water samples that had elevated pH, specifically a pH above two Standard Units, were accepted as usable data because the temperature and light protection criteria were met and the samples were analyzed within seven days (the holding time limit for unpreserved VOC samples). Samples with container temperatures outside the accepted range (4 ± 2 degrees Centigrade) were accepted as usable data because the affected samples were transported immediately to the laboratory after collection, and had been transported appropriately (in a cooler on ice), but were typically delivered to the laboratory before the sample material could be cooled to within the accepted temperature range.

The field QA/QC review also indicated that a trip blank sample was not indicated on the chain of custody submitted with SDG Geo-17 (December 2010 fourth quarter sampling event). However, Katahdin noted that the trip blank sample was present in the sample cooler upon arrival at the laboratory. The trip blank was added at the time of sample login, and analyzed as intended. Trip blank samples (i.e., laboratory-supplied samples of deionized water) were submitted at a frequency of one per ground water sampling event per cooler to evaluate field handling and sample transport.

Blanks, field duplicates, and matrix spike/matrix spike duplicates (MS/MSDs) were not typically submitted along with the influent and frac tank water sample SDGs because they were not identified as MPC for those data types.

Tier I

In general, Tier I review of laboratory reports indicated that the data packages were complete as compared to the Tier I checklist and were certified by the laboratory.

Tier II

In general, Tier II review of laboratory reports associated with quarterly performance ground water monitoring identified data to be usable for its intended purpose. Minor data quality issues

that were identified during the review included: analytes detected in trip blank(s), method blank(s), LCS/LCSD and MS/MSD spike recoveries and RPDs outside the accepted limits.

Method blank analysis was performed for each sample batch. In general, method blanks met the QC acceptance criteria, indicating that laboratory contamination did not interfere with sample analyses; however, analytes detected in trip blank(s) which were not identified as purge-limited compounds (Appendix D-2) or a non COC (identified in the project QAPP) were flagged as estimates in affected samples. Analytes detected in trip blank(s) which were not identified as purge-limited compounds or a non COC were flagged as estimates in affected samples.

In general, LCS/LCSD pairs met the QA acceptance criteria indicating that acceptable laboratory performance was achieved for the period during which the SDGs were analyzed. However, several LCS/LCSD pairs had one or more spiked analyte recovery outside the accepted range or one or more RPDs exceeding the acceptance criterion. Results for analytes that exceeded the QA acceptance criterion but were identified as purge-limited compounds or a non COC were accepted as reported. Results for analytes that were COCs and were not identified as purge-limited were flagged as estimates.

MS/MSD analyses for VOCs were performed at a frequency of approximately five percent (1:20) of the total number of samples submitted for analysis. In general, the MS/MSD pairs were found to meet the QC acceptance criteria for spike recoveries, surrogate recoveries, and RPDs, indicating that acceptable analytical precision was achieved. However, several MS/MSD pairs had one or more analytes that were outside the QC acceptance criteria. The source sample results for compounds that were not COCs or were identified as purge-limited compounds were accepted as reported. The source sample results for the analytes outside the QC acceptance criteria (excluding analytes that were identified as purge-limited or not constituents of concern) were flagged as estimates. THF was detected at elevated concentration in the source samples (i.e., greater than four times the spike concentration). Upon review of the laboratory provided addendum for SDG-Geo-16, the estimated results for SB-B2 were accepted as reported.

In general, the data sets met the DQOs and the analytical results were considered acceptable for their intended use. Please refer to the attached Data Validation and QA/QC Checklists (Appendix D-1) for additional details.

SUMMARY OF ATTACHMENTS

TABLES

TABLE 1	Summary of Pumping Periods
TABLE 2	Summary of GWE System Operational History – 2010
TABLE 3	Maintenance Tracking Log - 2010
TABLE 4	Matrix of Monitoring Activities
TABLE 5	Summary of Monitoring Well Gauging Data
TABLE 6	Summary of Laboratory Analytical Data – Influent VOC Monitoring – MW-206(I) – 2010
TABLE 7	Summary of Laboratory Analytical Data – Influent VOC Monitoring – SB-4D – 2010
TABLE 8	Summary of Laboratory Analytical Data – Frac Tank with POTW Local Limits and Screening Levels – 2010
TABLE 9	Mass Removal Calculations

FIGURES

FIGURE 1A	Transducer Water Elevation Data (April 5, 2010 – December 8, 2010)
FIGURE 1B	Transducer Water Elevation Data (April 5, 2010 – December 8, 2010) Wells Screened in the Pumping Zone
FIGURE 1C	Transducer Water Elevation Data (April 5, 2010 – December 8, 2010) Wells Screened Above and Below the Pumping Zone
FIGURE 2	Concentration Versus Time – MW-206(I) (2008 – Present)
FIGURE 3	Concentration Versus Time – SB-4D (2008 – Present)
FIGURE 4	Ground Water Contour Map – UUI Unit – March 26, 2010 (Baseline)
FIGURE 5	Ground Water Contour Map – UUI Unit – November 8, 2010 (System Operating)
FIGURE 6	Cross Section A - A'

APPENDICES

APPENDIX A	Laboratory Analytical Data (On CD)
APPENDIX B	Performance Monitoring Well Analytical Data Tables
APPENDIX C	Concentration versus Time – Quarterly Performance Monitoring Wells
APPENDIX D-1	Data Validation and Quality Assurance/Quality Control Checklists (On CD)
APPENDIX D-2	Summary of Compounds with Poor Purging Efficiency

TABLES

TABLE 1
SUMMARY OF PUMPING PERIODS
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Pumping Period	Average Total System Flow Rate (gpm)	Wells Operating	Total Volume Extracted To Date (gallons)
Initial Pilot Test			
November 29 to December 1, 2007	1.3	MW-206(I) SB-4D	7,115
Pilot Test Period			
April 16 to April 19, 2008	2.2	MW-206(I) SB-4D	15,441
May 1 to May 5, 2008	2.4	MW-206(I) SB-4D	30,605
May 12 to June 10, 2008	0.7	MW-206(I)	56,342
June 13 to June 17, 2008	0.7	MW-206(I)	60,590
2008 Operating Season			
June 20 to July 15, 2008	1.3	SB-4D	104,782
July 15 to August 5, 2008	0.8	MW-206(I)	130,030
August 5 to November 11, 2008	1.4	MW-206(I) SB-4D	256,588
November 11 to November 25, 2008	1.4	SB-4D	264,588
2009 Operating Season			
April 29 to December 1, 2009	1.5*	MW-206(I) SB-4D	522,656
2010 Operating Season			
April 19 to November 8, 2010	1.5*	MW-206(I) SB-4D	820,411

NOTES:
1. gpm = gallons per minute.
2. Average system flow rates were calculated using manual flow measurements collected throughout the specified pumping period. When more than one well was pumping, flow rates for the individual wells were added to calculate the total system flow rate.
3. * = Average flow rate during periods of system operation.

TABLE 2
SUMMARY OF GWE SYSTEM OPERATIONAL HISTORY - 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DATE	DAYS SINCE LAST VISIT	ACTIVITIES/NOTES	SAMPLES COLLECTED	SYSTEM OPERATING ON ARRIVAL	SYSTEM OPERATING ON DEPARTURE	PRESSURE AT REGULATOR SB-4D (PSI)	PRESSURE AT REGULATOR MW-206(I) (PSI)	APPROXIMATE FLOW RATE SB-4D (GPM)	APPROXIMATE FLOW RATE MW-206(I) (GPM)	TOTAL SYSTEM FLOW RATE (GPM)	WELL(S) PUMPING AT ARRIVAL	TOTALIZER READING - SB-4D	TOTALIZER READING - MW-206I	APPROXIMATE VOLUME PUMPED TO DATE
TOTAL VOLUME PUMPED PRIOR TO 2010 SYSTEM STARTUP														**522656**
04/19/10	---	BPP on-site for system startup	NO	NO	YES	102	100	0.9	1.0	1.9	SB-4D/MW-206(I)	27	165	522,848
04/22/10	3	KEZ on-site for system O&M and water transfer	NO	YES	YES	102	102	0.7	1.1	1.8	SB-4D/MW-206(I)	3033	5096	530,785
04/27/10	5	KEZ on-site for system O&M and water transfer	INFLUENT/FRAC TANK	YES	YES	102	102	0.8	1.2	2.0	SB-4D/MW-206(I)	7980	13238	543,874
04/29/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	543,874
05/04/10	7	CAM, SJL on-site for system O&M and water transfer	INFLUENT	YES	YES	---	---	0.8	0.8	1.6	SB-4D/MW-206(I)	14848	24107	561,611
05/10/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	561,611
05/11/10	7	BPP on-site for system O&M and water transfer	FRAC TANK	YES	YES	102	102	0.7	1.0	1.7	MW-206(I)	19045	34218	575,919
05/18/10	7	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	102	102	0.7	0.9	1.6	MW-206(I)	23954	44246	590,856
05/25/10	7	BPP on-site for system O&M	NO	YES	YES	102	102	0.8	1.0	1.8	MW-206(I)	27442	53938	604,036
05/26/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	604,036
06/01/10	7	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	102	102	1.0	0.8	1.8	SB-4D/MW-206(I)	34471	61741	618,868
06/08/10	7	BPP on-site for system O&M and water transfer	FRAC TANK	YES	YES	102	102	0.7	0.9	1.6	SB-4D	41720	68187	632,563
06/15/10	7	BPP, JRF on-site for system O&M and water transfer	INFLUENT	YES	YES	102	102	0.8	0.7	1.5	MW-206(I)	43959	76010	642,625
06/18/10	3	BPP on-site for system O&M	NO	YES	YES	102	102	0.7	0.8	1.5	SB-4D	46553	77612	646,821
06/22/10	4	BPP on-site for system O&M and water transfer	NO	YES	YES	102	102	0.9	0.7	1.6	SB-4D	46880	79035	648,571
06/28/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	648,571
06/29/10	7	BPP on-site for system O&M	INFLUENT	YES	YES	102	102	0.8	0.8	1.6	SB-4D	52925	82122	657,703
07/01/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	657,703
07/06/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	657,703
07/07/10	8	BPP on-site for system O&M	NO	YES	YES	102	102	0.7	0.9	1.6	MW-206(I)	55243	91607	669,506
07/12/10	5	BPP on-site for system O&M	INFLUENT/FRAC TANK	YES	YES	102	102	0.8	0.9	1.7	MW-206(I)	57502	97076	677,234
07/13/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	677,234
07/20/10	8	BPP on-site for system O&M and water transfer	NO	YES	YES	102	102	0.7	0.8	1.5	SB-4D/MW-206(I)	65633	104710	692,999
07/27/10	7	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	102	102	0.8	0.7	1.5	MW-206(I)	66609	111193	700,458
08/03/10	7	BPP on-site for system O&M and water transfer	FRAC TANK	YES	YES	102	102	0.7	0.7	1.4	SB-4D/MW-206(I)	73244	117336	713,236
08/12/10	9	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	102	102	0.8	0.6	1.4	SB-4D/MW-206(I)	81022	124966	728,644
08/18/10	6	BPP on-site for system O&M	NO	YES	YES	102	102	0.7	0.7	1.3	MW-206(I)	84042	130242	736,940
08/19/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	736,940
08/24/10	6	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	102	102	0.7	0.7	1.4	MW-206(I)	86181	135426	744,263
08/31/10	7	JRF on-site for system O&M	NO	YES	YES	---	---	0.7	0.7	1.4	SB-4D/MW-206(I)	89356	142201	754,213
09/01/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	754,213
09/07/10	7	BPP on-site for system O&M	INFLUENT/FRAC TANK	YES	YES	102	102	0.7	0.6	1.3	MW-206(I)	92412	148560	763,628
09/08/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	763,628
09/09/10	2	BPP on-site for system O&M	NO	YES	YES	102	102	0.7	0.7	1.4	SB-4D/MW-206(I)	94529	150448	767,633
09/14/10	5	BPP on-site for system O&M	NO	YES	YES	102	102	0.7	0.7	1.4	SB-4D/MW-206(I)	99100	154718	776,474
09/15/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	776,474
09/21/10	7	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	102	102	---	0.7	0.7	MW-206(I)	99566	160598	782,820
09/28/10	7	BPP on-site for system O&M	NO	NO	YES	---	---	---	---	---	NONE	99798	166456	788,910
09/29/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	788,910
10/05/10	7	BPP on-site for system O&M and water transfer	INFLUENT/FRAC TANK	YES	YES	104	102	0.7	0.7	1.4	MW-206(I)	99805	171065	793,526
10/12/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	793,526
10/19/10	14	BPP on-site for system O&M and water transfer	INFLUENT	NO	YES	102	102	0.7	0.7	1.4	NONE	103114	174028	799,798
10/25/10	6	BPP on-site for system O&M	NO	NO	YES	---	102	0.7	0.8	1.5	NONE	104547	180395	807,598
11/02/10	8	BPP on-site for system O&M	INFLUENT	YES	YES	---	102	---	0.7	0.7	MW-206(I)	104562	187098	814,316
11/04/10	---	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	---	814,316
11/08/10	6	BPP on-site for system O&M and system shut down.	NO	YES	NO	---	102	---	0.6	0.6	MW-206(I)	104566	193189	820,411

NOTES:
1. --- = not recorded or not applicable.
2. psi = pounds per square inch.
3. gpm = gallons per minute.
4. BPP = Brian Poulin, primary system operator; CAM = Cory Mahony, system operator; KEZ = Kristin Zeman, system operator; SJL = Shauna Little, system operator; JRF = Joshua Funk, system operator.
5. CHES = Clean Harbors Environmental Services.

TABLE 3
MAINTENANCE TRACKING LOG - 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DATE	FIELD STAFF	MAINTENANCE PERFORMED	NOTES	SYSTEM AT ARRIVAL (ON/OFF)	SYSTEM AT DEPARTURE (ON/OFF)
04/16/10	BPP	Installed new system connections.	New system setup in place, new totalizers operating.	OFF	ON
05/11/10	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
05/18/10	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure. Water return line was blocked.	ON (SB-4D OFF)	ON
05/25/10	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air. Adjusted pump.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure. Water return line was blocked.	ON (SB-4D OFF)	ON
06/01/10	BPP	---	System appears to be operating properly. Maintenance not performed.	ON	ON
06/08/10	BPP	Pulled and cleaned pump in MW-206(I). Drained MW-206(I) air line.	Iron/sediment buildup observed in pump. Pump in MW-206(I) operating at departure.	ON (MW-206(I) OFF)	ON
06/15/10	BPP	Pulled and cleaned pump in SB-4D.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
06/22/10	BPP	Pulled and cleaned pump in MW-206(I). Clear MW-206(I) return line with compressed air.	Iron/sediment buildup observed in pump. Pump in MW-206(I) operating at departure.	ON (MW-206(I) OFF)	ON
06/29/10	BPP	Pulled and cleaned pump in MW-206(I). Clear MW-206(I) return line with compressed air.	Iron/sediment buildup observed in pump. Pump in MW-206(I) operating at departure.	ON (MW-206(I) OFF)	ON
07/07/10	BPP	Pulled and cleaned pumps in MW-206(I) and SB-4D. Clear MW-206(I) and SB-4D return lines with compressed air.	Iron/sediment buildup observed in pump. Replaced SB-4D pump with clean pump, cleaned other pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
7/12/2010	BPP	Pulled and cleaned pump in SB-4D. Changed compressor oil.	Iron/sediment buildup observed in pump. Replaced SB-4D pump with clean pump, cleaned other pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
7/20/2010	BPP	---	System appears to be operating properly. Maintenance not performed.	ON	ON
7/27/2010	BPP	Fixed kink at SB-4D.	Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
8/3/2010	BPP	---	System appears to be operating properly. Maintenance not performed.	ON	ON
8/12/2010	BPP	---	System appears to be operating properly. Maintenance not performed.	ON	ON

TABLE 3
MAINTENANCE TRACKING LOG - 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DATE	FIELD STAFF	MAINTENANCE PERFORMED	NOTES	SYSTEM AT ARRIVAL (ON/OFF)	SYSTEM AT DEPARTURE (ON/OFF)
8/18/2010	BPP	Pulled and cleaned pump in SB-4D.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
8/24/2010	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air.	Pump in SB-4D was "short-circuiting" for unknown reason. Replaced SB-4D pump with clean pump, cleaned other pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
8/31/2010	JRF	---	System appears to be operating properly. Maintenance not performed.	ON	ON
9/7/2010	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air.	Pump in SB-4D was "short-circuiting" for unknown reason. Replaced SB-4D pump with clean pump, cleaned other pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
9/9/2010	BPP	---	System appears to be operating properly. Maintenance not performed.	ON	ON
9/14/2010	BPP	---	System appears to be operating properly. Maintenance not performed.	ON	ON
9/21/2010	BPP	Pulled and cleaned pumps in MW-206(I) and SB-4D. Clear MW-206(I) and SB-4D return lines with compressed air. Vac out silt from MW-206(I), SB-4D,	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
9/28/2010	BPP	---	System off due to frac tank high water alarm. Maintenance not performed.	OFF	OFF
10/5/2010	BPP	Clear SB-4D return line with compressed air.	Pump in SB-4D operating at departure. Water return line was blocked.	ON (SB-4D OFF)	ON
10/19/2010	BPP	Clear SB-4D return line with compressed air.	System off due to tripped ground fault interrupter. Pump in SB-4D operating at departure. Water return line was blocked.	OFF	ON
10/25/2010	BPP	Pulled and cleaned pumps in MW-206(I) and SB-4D. Clear MW-206(I) and SB-4D return lines with compressed air.	Iron/sediment buildup observed in pumps. Pump in MW-206(I) operating at departure. Pump in SB-4D was "short-circuiting" for unknown reason. Pump in SB-4D not operating at departure.	OFF	ON
11/2/2010	BPP	Removed and cleaned pump in SB-4D.	MW-206(I) appears to be operating properly. SB-4D off for season. Maintenance not performed.	ON (SB-4D OFF)	ON
11/8/2010	BPP	Removed and cleaned pump in MW-206(I).	System shut down for 2010 season.	ON	OFF

NOTES:
1. BPP = Brian Poulin; GWE primary system operator.
2. JRF = Joshua Funk; GWE system operator.
3. --- = System maintenance activities not conducted.

TABLE 4
MATRIX OF MONITORING ACTIVITIES
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

		HYDRAULIC MONITORING		GROUND WATER QUALITY MONITORING			
WELL ID	STRATIGRAPHIC UNIT	COMPREHENSIVE GAUGING	CONTINUOUS HYDRAULIC INFLUENCE MONITORING	ANNUAL BASELINE SAMPLING (APRIL)	QUARTERLY REMEDY PERFORMANCE MONITORING		
					JULY	OCTOBER	DECEMBER
Existing Monitoring Wells							
MW-206(I)	UUI	X	X				
PT-1	LUI	X	X				
PT-2	LUI	X					
PT-3	LUI	X					
SB-B1(S)	US	X		X			
SB-B2(I)	UUI	X	X	X	X	X	X
SB-B3(D)	LUI	X		X			
B-10WT	US	X	X				
MW-200(S)	US	X		X			
MW-200(I)	UUI	X	X	X	X	X	X
MW-200(D)	LUI	X		X			
SB-10I	UUI	X		X			
SB-10D	LUI	X					
SB-D1	US	X		X			
SB-D2	UUI	X		X			
SB-D3I	UUI	X	X	X			
SB-4D	UUI	X					
SC-10US	US	X					
SC-10UUI	UUI	X					
SC-10LUI	LUI	X					
SC-11US	US	X					
SC-11UUI	UUI	X					
SC-18US	US	X					
SC-18UUI	UUI	X					
B-4W	US	X					
SB-8U	UUI	X					
SB-8D	LUI	X					
SB-A1	US	X					
SB-A2	US	X					
MW-201(S)	US	X					
MW-201(I)	UUI	X					
MW-201(D)	LUI	X					
MW-202(S)	US	X					
MW-203(S)	US	X					
MW-204(S)	US	X					
MW-204(IA)	UUI	X	X	X			
MW-204(IB)	UUI	X					
MW-204(D)	LUI	X					
MW-205(I)	UUI	X					
SC-8US	US	X					
SC-8UUI	UUI	X					
SC-8LUI	LUI	X					
SB-C1	US	X					
SB-C2	UUI	X					
B-8WT	US	X					
MW-102S	US	X					
MW-102U	UUI	X					
Performance Monitoring Wells							
MW-206(S)	US	X	X	X			
MW-207(I)	UUI	X	X	X	X	X	X
MW-208(S)	US	X	X	X			
MW-208(I)	UUI	X	X	X	X	X	X
MW-209(I)	UUI	X	X	X	X	X	X

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
B-10WT	4/16/2009	146.21	1.89	144.32
	10/6/2009	146.21	3.12	143.09
	3/26/2010	146.21	1.82	144.39
	11/8/2010	146.21	3.02	143.19
B-4WT	4/16/2009	150.98	4.34	146.64
	10/6/2009	150.98	4.44	146.54
	3/26/2010	150.98	4.16	146.82
	11/8/2010	150.98	4.21	146.77
B-8WT	4/16/2009	147.41	2.52	144.89
	10/6/2009	147.41	3.82	143.59
	3/26/2010	147.41	2.28	145.13
	11/8/2010	147.41	3.55	143.86
MW-102S	4/16/2009	143.99	---	---
	10/6/2009	143.99	4.99	139.00
	3/26/2010	143.99	3.55	140.44
	11/8/2010	143.99	4.32	139.67
MW-102U	4/16/2009	142.16	2.21	139.95
	10/6/2009	142.16	2.71	139.45
	3/26/2010	142.16	2.53	139.63
	11/8/2010	142.16	2.91	139.25
MW-200(S)	4/16/2009	146.53	2.41	144.12
	10/6/2009	146.53	2.71	143.82
	3/26/2010	146.53	2.26	144.27
	11/8/2010	146.53	2.64	143.89
MW-200(I)	4/16/2009	145.62	---	---
	10/6/2009	147.90*	2.97	144.93
	3/26/2010	147.90*	2.01	145.89
	11/8/2010	147.90*	3.20	144.70
MW-200(D)	4/16/2009	145.76	1.00	144.76
	10/6/2009	145.76	1.84	143.92
	3/26/2010	145.76	0.70	145.06
	11/8/2010	145.76	3.19	142.57
MW-201(S)	4/16/2009	145.69	2.80	142.89
	10/6/2009	145.69	3.86	141.83
	3/26/2010	145.69	2.67	143.02
	11/8/2010	145.69	3.44	142.25

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
MW-201(I)	4/16/2009	145.99	1.21	144.78
	10/6/2009	145.99	2.14	143.85
	3/26/2010	145.99	1.10	144.89
	11/8/2010	145.99	2.92	143.07
MW-201(D)	4/16/2009	145.83	2.27	143.56
	10/6/2009	145.83	3.10	142.73
	3/26/2010	145.83	2.00	143.83
	11/8/2010	145.83	3.44	142.39
MW-202(S)	4/16/2009	142.60	2.33	140.27
	10/6/2009	142.60	2.13	140.47
	3/26/2010	142.60	2.20	140.40
	11/8/2010	142.60	2.04	140.56
MW-203(S)	4/16/2009	145.73	5.20	140.53
	10/6/2009	145.73	5.78	139.95
	3/26/2010	145.73	4.43	141.30
	11/8/2010	145.73	5.08	140.65
MW-204(S)	4/16/2009	145.42	2.51	142.91
	10/6/2009	145.42	3.36	142.06
	3/26/2010	145.42	2.54	142.88
	11/8/2010	145.42	3.23	142.19
MW-204(IA)	4/16/2009	145.85	2.98	142.87
	10/6/2009	145.85	3.73	142.12
	3/26/2010	145.85	2.82	143.03
	11/8/2010	145.85	3.46	142.39
MW-204(IB)	4/16/2009	145.41	1.60	143.81
	10/6/2009	145.41	2.11	143.30
	3/26/2010	145.41	1.34	144.07
	11/8/2010	145.41	2.18	143.23
MW-204(D)	4/16/2009	145.69	2.26	143.43
	10/6/2009	145.69	3.00	142.69
	3/26/2010	145.69	1.88	143.81
	11/8/2010	145.69	3.39	142.30
MW-205(I)	4/16/2009	147.17	4.35	142.82
	10/6/2009	147.17	4.59	142.58
	3/26/2010	147.17	4.11	143.06
	11/8/2010	147.17	4.54	142.63

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
MW-206(S)	4/16/2009	149.40	4.76	144.64
	10/6/2009	149.40	4.88	144.52
	3/26/2010	149.40	4.62	144.78
	11/8/2010	149.40	4.08	145.32
MW-206(I)	4/16/2009	149.03	2.55	146.48
	10/6/2009	149.03	6.16	142.87
	3/26/2010	149.03	2.21	146.82
	11/8/2010	149.03	4.96	144.07
MW-207(I)	4/16/2009	146.97	0.34	146.63
	10/6/2009	146.97	1.73	145.24
	3/26/2010	146.97	0.15	146.82
	11/8/2010	146.97	1.70	145.27
MW-208(S)	4/16/2009	147.11	2.50	144.61
	10/6/2009	147.11	2.66	144.45
	3/26/2010	147.11	2.47	144.64
	11/8/2010	147.11	2.61	144.50
MW-208(I)	4/16/2009	147.29	0.67	146.62
	10/6/2009	147.29	1.97	145.32
	3/26/2010	147.29	0.41	146.88
	11/8/2010	147.29	1.94	145.35
MW-209(I)	4/16/2009	147.39	0.81	146.58
	10/6/2009	147.39	1.85	145.54
	3/26/2010	147.39	0.50	146.89
	11/8/2010	147.39	1.91	145.48
PT-1	4/16/2009	148.51	2.75	145.76
	10/6/2009	148.51	3.61	144.90
	3/26/2010	148.51	2.35	146.16
	11/8/2010	148.51	3.92	144.59
PT-2	4/16/2009	148.39	2.60	145.79
	10/6/2009	148.39	3.47	144.92
	3/26/2010	148.39	2.22	146.17
	11/8/2010	148.39	3.79	144.60
PT-3	4/16/2009	149.39	3.51	145.88
	10/6/2009	149.39	4.39	145.00
	3/26/2010	149.39	3.35	146.04
	11/8/2010	149.39	4.70	144.69

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
SB-10I	4/16/2009	147.96	2.29	145.67
	10/6/2009	147.96	2.64	145.32
	3/26/2010	147.96	2.18	145.78
	11/8/2010	147.96	2.99	144.97
SB-10D	4/16/2009	148.35	2.41	145.94
	10/6/2009	148.35	3.17	145.18
	3/26/2010	148.35	2.14	146.21
	11/8/2010	148.35	3.37	144.98
SB-4D	4/16/2009	150.51	2.69	147.82
	10/6/2009	150.51	---	---
	3/26/2010	150.51	2.38	148.13
	11/8/2010	150.51	3.75	146.76
SB-8U	4/16/2009	148.66	3.07	145.59
	10/6/2009	148.66	3.33	145.33
	3/26/2010	148.66	2.74	145.92
	11/8/2010	148.66	3.34	145.32
SB-8D	4/16/2009	148.50	3.37	145.13
	10/6/2009	148.50	2.31	146.19
	3/26/2010	148.50	1.26	147.24
	11/8/2010	148.50	2.80	145.70
SB-A1	4/16/2009	151.31	3.95	147.36
	10/6/2009	151.31	4.22	147.09
	3/26/2010	151.31	3.74	147.57
	11/8/2010	151.31	3.98	147.33
SB-A2	4/16/2009	151.08	3.69	147.39
	10/6/2009	151.08	3.96	147.12
	3/26/2010	151.08	3.48	147.60
	11/8/2010	151.08	3.74	147.34
SB-B1 (S)	4/16/2009	148.52	4.23	144.29
	10/6/2009	148.52	4.43	144.09
	3/26/2010	148.52	4.11	144.41
	11/8/2010	148.52	4.33	144.19
SB-B2 (I)	4/16/2009	148.21	1.67	146.54
	10/6/2009	148.21	2.88	145.33
	3/26/2010	148.21	1.40	146.81
	11/8/2010	148.21	3.90	144.31

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
SB-B3 (D)	4/16/2009	148.53	2.44	146.09
	10/6/2009	148.53	3.34	145.19
	3/26/2010	148.53	2.04	146.49
	11/8/2010	148.53	3.65	144.88
SB-C1	4/16/2009	148.15	3.82	144.33
	10/6/2009	148.15	5.74	142.41
	3/26/2010	148.15	3.52	144.63
	11/8/2010	148.15	4.51	143.64
SB-C2	4/16/2009	147.88	3.12	144.76
	10/6/2009	147.88	3.87	144.01
	3/26/2010	147.88	2.64	145.24
	11/8/2010	147.88	4.09	143.79
SB-D1	4/16/2009	148.03	4.13	143.90
	10/6/2009	148.03	4.63	143.40
	3/26/2010	148.03	4.00	144.03
	11/8/2010	148.03	4.42	143.61
SB-D3(I)	4/16/2009	147.57	2.34	145.23
	10/6/2009	147.57	2.90	144.67
	3/26/2010	147.57	2.05	145.52
	11/8/2010	147.57	2.89	144.68
SB-D2	4/16/2009	147.91	3.09	144.82
	10/6/2009	147.91	3.89	144.02
	3/26/2010	147.91	2.69	145.22
	11/8/2010	147.91	4.08	143.83
SC-8US	4/16/2009	150.08	5.18	144.90
	10/6/2009	150.08	5.52	144.56
	3/26/2010	150.08	4.78	145.30
SC-8UUI	4/16/2009	150.07	4.30	145.77
	10/6/2009	150.07	2.43	147.64
	3/26/2010	150.07	4.10	145.97
SC-8LUI	4/16/2009	150.20	4.62	145.58
	10/6/2009	150.20	2.80	147.40
	3/26/2010	150.20	3.90	146.30
SC-10US	4/16/2009	150.09	4.06	146.03
	10/6/2009	150.09	4.42	145.67
	3/26/2010	150.09	3.77	146.32
	11/8/2010	150.09	4.12	145.97

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
SC-10UUI	4/16/2009	149.15	2.15	147.00
	10/6/2009	149.15	2.97	146.18
	3/26/2010	149.15	1.80	147.35
	11/8/2010	149.15	3.01	146.14
SC-10LUI	4/16/2009	149.49	2.65	146.84
	10/6/2009	149.49	3.73	145.76
	3/26/2010	149.49	2.21	147.28
	11/8/2010	149.49	3.96	145.53
SC-11US	4/16/2009	150.75	3.92	146.83
	10/6/2009	150.75	4.16	146.59
	3/26/2010	150.75	3.81	146.94
	11/8/2010	150.75	3.89	146.86
SC-11UUI	4/16/2009	150.25	2.55	147.70
	10/6/2009	150.25	3.23	147.02
	3/26/2010	150.25	2.23	148.02
	11/8/2010	150.25	3.29	146.96
SC-18US	4/16/2009	149.78	3.79	145.99
	10/6/2009	149.78	4.19	145.59
	3/26/2010	149.78	3.58	146.20
	11/8/2010	149.78	3.93	145.85
SC-18UUI	4/16/2009	149.64	2.91	146.73
	10/6/2009	149.64	3.67	145.97
	3/26/2010	149.64	2.55	147.09
	11/8/2010	149.64	3.64	146.00

NOTES:
1. Depth to water measured in feet.
2. Well elevation referenced to North American Vertical Datum of 1988 (NAVD 88).
3. * = Top of casing raised on June 15, 2009.
4. --- = Well was not gauged.

TABLE 6
SUMMARY OF LABORATORY ANALYTICAL DATA
INFLUENT VOC MONITORING - MW-206(I) - 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Analyte	POTW Screening Levels	27-Apr-10	4-May-10	18-May-10	1-Jun-10	15-Jun-10	29-Jun-10	12-Jul-10	27-Jul-10	12-Aug-10	24-Aug-10	7-Sep-10	21-Sep-10	5-Oct-10	19-Oct-10	2-Nov-10
benzene	N/A	**26**	**25**	**27**	**25**	**26**	**30**	**27**	**28**	**29**	**33**	**24**	**28**	**28**	**27**	**27**
ethylbenzene	**1,590**	**17**	**18**	**22**	**21**	**23**	**23**	**22**	**22**	**24**	**25**	**20**	**23**	**22**	**17**	**17**
toluene	**1,350**	**2**	**2**	**2**	**2**	**2**	**3**	**2**	**2**	**2**	**3**	<2	**2**	**2**	**2**	**2**
xylenes (total)	N/A	**55**	**60**	**67**	**70**	**75**	**80**	**76**	**75**	**73**	**90**	**65**	**78**	**84**	**82**	**78**
PCE	**530**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
TCE	**710**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,2-DCE	**280***	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
acetone	**1,176,000**	**72**	**130**	**50**	<50	<50	<50	**59**	<50	<50	<50	**65**	<50	<50	<50	<50
tetrahydrofuran	N/A	**1,500**	**1,400**	**3,700**	**1,600**	**1,400**	**1,500**	**1,500**	**1,300**	**1,300**	**1,700**	**1,400**	**1,400**	**1,400**	**2,000**	**1,700**
MEK	**249,000**	**160**	**430**	**99**	**13**	<10	<10	**120**	<10	<10	<10	**130**	<10	<10	<10	<10
MIBK	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
methylene chloride	**4,150**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCA	**4,580**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCE	N/A	<1	<1	<1	<1	<1	<1	**<1**	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromomethane	**2**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	**7**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	**420**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dibromochloromethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromoform	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
carbon disulfide	**60**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
styrene	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroethane	N/A	<2	<2	<2	<2	<2	**2**	<2	<2	<2	**2**	<2	<2	<2	**2**	<2
chlorobenzene	**2,350**	**3**	**3**	**3**	**3**	**4**	**4**	**4**	**4**	**4**	**4**	**3**	**4**	**4**	**4**	**4**
1,2-dichloropropane	**3,650**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2-hexanone	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Trichloroethene.
3. N/A = Not Applicable.
4. "<" = Not detected above laboratory practical quantitation limits (PQLs).
5. Bold values exceed laboratory PQLs.
6. * indicates Screening Level for trans-1,2-dichloroethylene.
7. ** indicates Screening Level for 1,1,1-trichloroethylene.
8. *** indicates Screening Level for total 1,3-dichloropropene.

TABLE 7
SUMMARY OF LABORATORY ANALYTICAL DATA
INFLUENT VOC MONITORING - SB-4D - 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Analyte	POTW Screening Levels	27-Apr-10	4-May-10	18-May-10	1-Jun-10	15-Jun-10	29-Jun-10	12-Jul-10	27-Jul-10	12-Aug-10	24-Aug-10	7-Sep-10	21-Sep-10	5-Oct-10	19-Oct-10
benzene	N/A	**39**	**30**	**37**	**34**	**36**	**38**	**37**	**39**	**34**	**42**	**35**	**39**	**42**	**39**
ethylbenzene	**1,590**	**36**	**25**	**31**	**29**	**30**	**32**	**36**	**37**	**36**	**37**	**32**	**31**	**37**	**31**
toluene	**1,350**	**21**	**17**	**20**	**20**	**21**	**24**	**20**	**19**	**21**	**18**	**15**	**12**	**9**	**12**
xylenes (total)	N/A	**186**	**137**	**163**	**161**	**182**	**175**	**187**	**199**	**177**	**188**	**173**	**163**	**168**	**186**
PCE	**530**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
TCE	**710**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,2-DCE	**280***	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
acetone	**1,176,000**	<50	**55**	<50	**62**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
tetrahydrofuran	N/A	**2,400**	**3,300**	**3,100**	**1,600**	**1,300**	**1,200**	**1,100**	**1,300**	**1,300**	**1,400**	**1,200**	**1,300**	**1,500**	**2,100**
MEK	**249,000**	**29**	**74**	**14**	**23**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MIBK	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
methylene chloride	**4,150**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCA	**4,580**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCE	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromomethane	**2**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	**7**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	**420**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dibromochloromethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromoform	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
carbon disulfide	**60**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**4**
styrene	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroethane	N/A	**9**	**6**	**7**	**7**	**7**	**8**	**8**	**8**	**8**	**9**	**7**	**9**	**11**	**9**
chlorobenzene	**2,350**	**3**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**4**	**4**	**4**
1,2-dichloropropane	**3,650**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2-hexanone	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Trichloroethene.
3. N/A = Not Applicable.
4. "<" = Not detected above laboratory practical quantitation limits (PQLs).
5. Bold values exceed laboratory PQLs.
6. * indicates Screening Level for trans-1,2-dichloroethylene.
7. ** indicates Screening Level for 1,1,1-trichloroethylene.
8. *** indicates Screening Level for total 1,3-dichloropropene.

TABLE 8
SUMMARY OF LABORATORY ANALYTICAL DATA - FRAC TANK WITH POTW LOCAL LIMITS AND SCREENING LEVELS - 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

		Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)
		FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK
Analyte/Parameter	**Local Limit**	**4/27/2010**	**5/11/2010**	**6/8/2010**	**7/12/2010**	**8/3/2010**	**9/7/2010**	**10/5/2010**
Total Arsenic	0.4	**0.072**	**0.031**	**0.24**	**0.018**	**0.047**	**0.037**	**0.008**
Total Cadmium	0.02	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Total Chromium	4.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Copper	3.46	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Lead	0.806	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Mercury	0.004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0002
Total Nickel	1.07	**0.05**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium	8.55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	0.713	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Total Zinc	4.33	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cyanide	0.363	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Phenol	182	<0.05	<0.05	<0.05	<0.05	**0.05**	<0.05	<0.05
Analyte/Parameter	**Screening Level**	**4/27/2010**	**5/11/2010**	**6/8/2010**	**7/12/2010**	**8/3/2010**	**9/7/2010**	**10/5/2010**
1,1,1-Trichloroethylene	1.55	<0.002*	<0.002*	<0.002*	<0.002*	<0.002*	<0.002*	<0.002*
1,1-Dichloroethane	4.58	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	0.43	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichlorobenzene	3.74	**0.003**	**0.003**	**0.002**	<0.002	**0.003**	<0.002	**0.003**
1,2-Dichloropropane	3.65	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,3-Dichloropropene (Total)	0.09	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,4-Dichlorobenzene	3.54	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2-Butanone (MEK)	249	**0.031**	**0.012**	<0.010	<0.010	<0.010	<0.010	<0.010
Acetone	1,176	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acrylonitrile	1.24	---	---	---	---	---	---	---
Bromomethane	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide	0.06	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	2.35	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	<0.002	**0.004**
Chloroform	0.42	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloromethane	0.007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dichlorodifluoromethane	0.04	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	1.59	**0.020**	**0.021**	**0.021**	<0.002	**0.021**	**0.006**	**0.008**
Ethylene Dichloride	1.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Hexachloroethane	0.96	---	---	---	---	---	---	---
Hexachloro-1,3-Butadiene	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Methylene Chloride	4.15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	3.34	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.006**
Tetrachloroethylene	0.53	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	1.35	**0.007**	**0.008**	**0.012**	<0.002	**0.010**	**0.002**	<0.002
trans-1,2-Dichloroethylene	0.28	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethylene	0.71	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	1.22	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Vinyl Acetate	1.21	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Formaldehyde	0.07	**0.410[A]**	**0.310[A]**	**0.290[A]**	**0.110[A]**	**0.280[A]**	**0.280[A]**	**0.072[A]**
Heptachlor	0.003	---	---	---	---	---	---	---
Sulfate	150/1,500	---	---	---	---	---	---	---
Sulfide	1	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Sulfite	2.00	---	---	---	---	---	---	---
Oil and Grease	100	---	---	---	---	---	---	---
Ammonia-N	90	---	---	---	---	---	---	---
pH	<6.0 or >11.0	**6.5^**	**6.2^**	**6.6^**	**7.1^**	**6.5^**	**6.8^**	**6.5^**
Alkalinity (as CaCO3)	>75.0	---	---	---	---	---	---	---
Biological Oxygen Demand	791	**25**	**17**	**23**	**17**	**25**	**18**	**34**
Total Suspended Solids	847	**61**	**78**	**80**	**16**	**66**	**66**	**16**
ADDITIONAL ANALYSES (NON-PERMIT) REQUESTED BY POTW								
Analyte/Parameter		**4/27/2010**	**5/11/2010**	**6/8/2010**	**7/12/2010**	**8/3/2010**	**9/7/2010**	**10/5/2010**
Antimony		**0.007**	**0.007**	**0.010**	<0.006	**0.007**	**0.006**	<0.006
Beryllium		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Molybdenum		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.002**
Tetrahydrofuran		**1.4**	**2.0**	**3.7**	**1.1**	**1.3**	**1.0**	**1.1**
Flash Point (Closed Cup)		---	---	---	---	---	---	---

NOTES:
1. Laboratory analytical results are reported in mg/L (milligrams per liter).
2. Bold values exceed laboratory practical quantitation limits (PQLs).
3. Shaded value exceeds screening criteria.
4. "<" = Not detected above reported PQL.
5. --- = Constituent was not analyzed.
6. * data presented for 1,1,1-trichloroethane.
7. [A] data reported by Chem Serve Environmental Analysts.
8. ^ = sample was analyzed beyond method holding time.
9. pH measured in standard pH units.
10. POTW = Dover's Publicly Owned Treatment Works.

TABLE 9
MASS REMOVAL CALCULATIONS - 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

2010 Operating Season (4/19/10-11/8/10)								
	Constituents						Constituent Weekly Totals	
Well ID	Benzene Concentration (ug/L)	Tetrahydrofuran Concentration (ug/L)	Sample Date	Average Well Pumping Rate (gal/min)	Gallons Pumped	Liters Pumped	Benzene (kg)	Tetrahydrofuran (kg)
MW-206I	26	1,500	4/27/2010	1.2	13,238	50,111	1.30E-03	7.52E-02
	25	1,400	5/4/2010	0.8	10,869	41,144	1.03E-03	5.76E-02
	27	3,700	5/18/2010	0.9	20,139	76,234	2.06E-03	2.82E-01
	25	1,600	6/1/2010	0.8	17,495	66,226	1.66E-03	1.06E-01
	26	1,400	6/15/2010	0.7	14,269	54,014	1.40E-03	7.56E-02
	30	1,500	6/29/2010	0.9	6,112	23,136	6.94E-04	3.47E-02
	27	1,500	7/12/2010	0.9	14,954	56,607	1.53E-03	8.49E-02
	28	1,300	7/27/2010	0.8	14,117	53,439	1.50E-03	6.95E-02
	29	1,300	8/12/2010	0.7	13,773	52,136	1.51E-03	6.78E-02
	33	1,700	8/24/2010	0.7	10,460	39,595	1.31E-03	6.73E-02
	24	1,400	9/7/2010	0.7	13,134	49,718	1.19E-03	6.96E-02
	28	1,400	9/21/2010	0.7	12,038	45,569	1.28E-03	6.38E-02
	28	1,400	10/5/2010	0.7	10,467	39,622	1.11E-03	5.55E-02
	27	2,000	10/19/2010	0.7	2,963	11,216	3.03E-04	2.24E-02
	27	1,700	11/2/2010	0.7	13,070	49,475	1.34E-03	8.41E-02
	27	1,653	11/8/2010	0.6	6,091	23,057	6.30E-04	3.81E-02
SB-4D	39	2,400	4/27/2010	0.8	7,980	30,208	1.18E-03	7.25E-02
	30	3,300	5/4/2010	0.8	6,868	25,998	7.80E-04	8.58E-02
	37	3,100	5/18/2010	0.8	9,106	34,470	1.28E-03	1.07E-01
	34	1,600	6/1/2010	1.0	10,517	39,811	1.35E-03	6.37E-02
	36	1,300	6/15/2010	0.8	9,488	35,916	1.29E-03	4.67E-02
	38	1,200	6/29/2010	0.8	8,966	33,940	1.29E-03	4.07E-02
	37	1,100	7/12/2010	0.8	4,577	17,326	6.41E-04	1.91E-02
	39	1,300	7/27/2010	0.8	9,107	34,474	1.34E-03	4.48E-02
	34	1,300	8/12/2010	0.8	14,413	54,559	1.86E-03	7.09E-02
	42	1,400	8/24/2010	0.7	5,159	19,529	8.20E-04	2.73E-02
	35	1,200	9/7/2010	0.7	6,231	23,587	8.26E-04	2.83E-02
	39	1,300	9/21/2010	0.7	7,154	27,081	1.06E-03	3.52E-02
	42	1,500	10/5/2010	0.7	239	905	3.80E-05	1.36E-03
	39	2,100	10/19/2010	0.7	4,761	18,022	7.03E-04	3.78E-02
							kg	lbs
Benzene							0.03	0.08
Tetrahydrofuran							1.94	4.27
					2010 TOTAL:		1.97	4.34

2008 TOTAL:	2.04	4.49
2009 TOTAL:	1.82	4.01
2010 TOTAL:	1.97	4.34
TOTAL (to date):	5.83	12.84

NOTES:
1. ug/L = micrograms per liter.
2. kg = kilograms.
3. lbs = pounds.
4. Average pumping rates calculated from weekly system O&M flow measurements determined from influent-line totalizers.
5. "Gallons Pumped" determined from influent-line totalizers and verified by comparing recorded water transfer volumes.

FIGURES

FIGURE 1A
TRANSDUCER WATER ELEVATION DATA (APRIL 5, 2010 - DECEMBER 8, 2010)
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

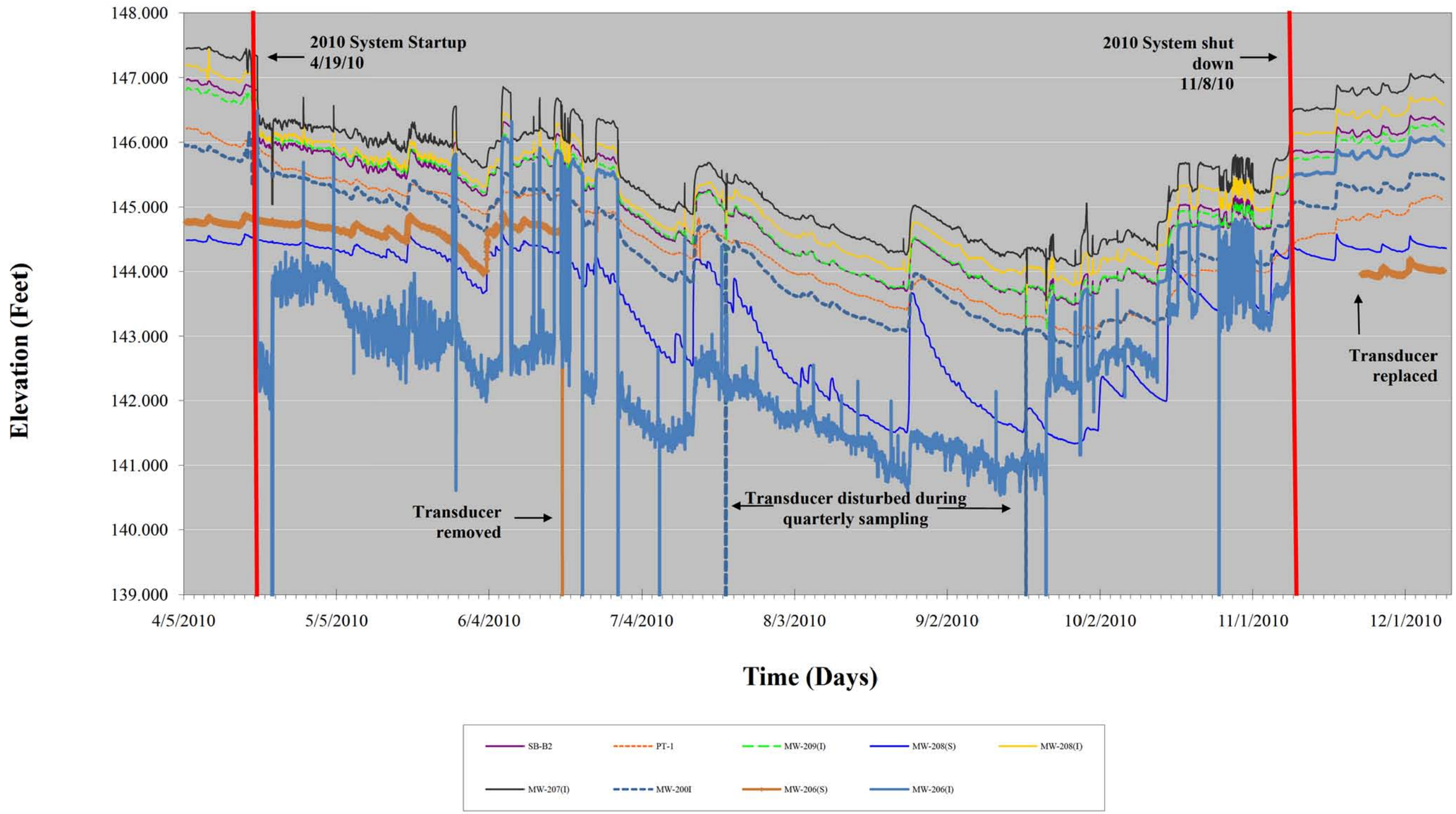


FIGURE 1B
TRANSDUCER WATER ELEVATION DATA (APRIL 5, 2010 - DECEMBER 8, 2010)
WELLS SCREENED IN THE PUMPING ZONE
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

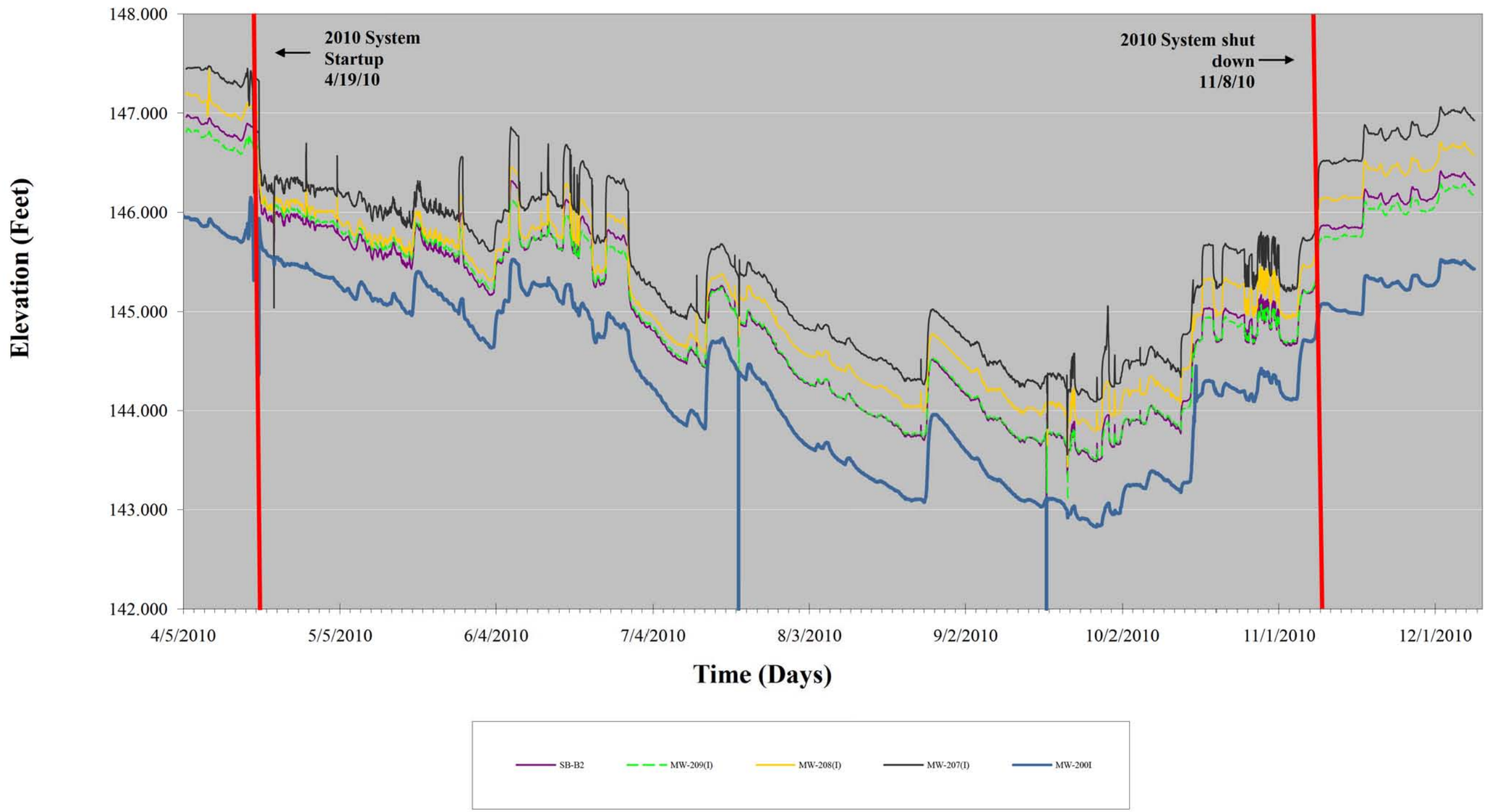


FIGURE 1C
TRANSDUCER WATER ELEVATION DATA (APRIL 5, 2010 - DECEMBER 8, 2010)
WELLS SCREENED ABOVE AND BELOW THE PUMPING ZONE
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

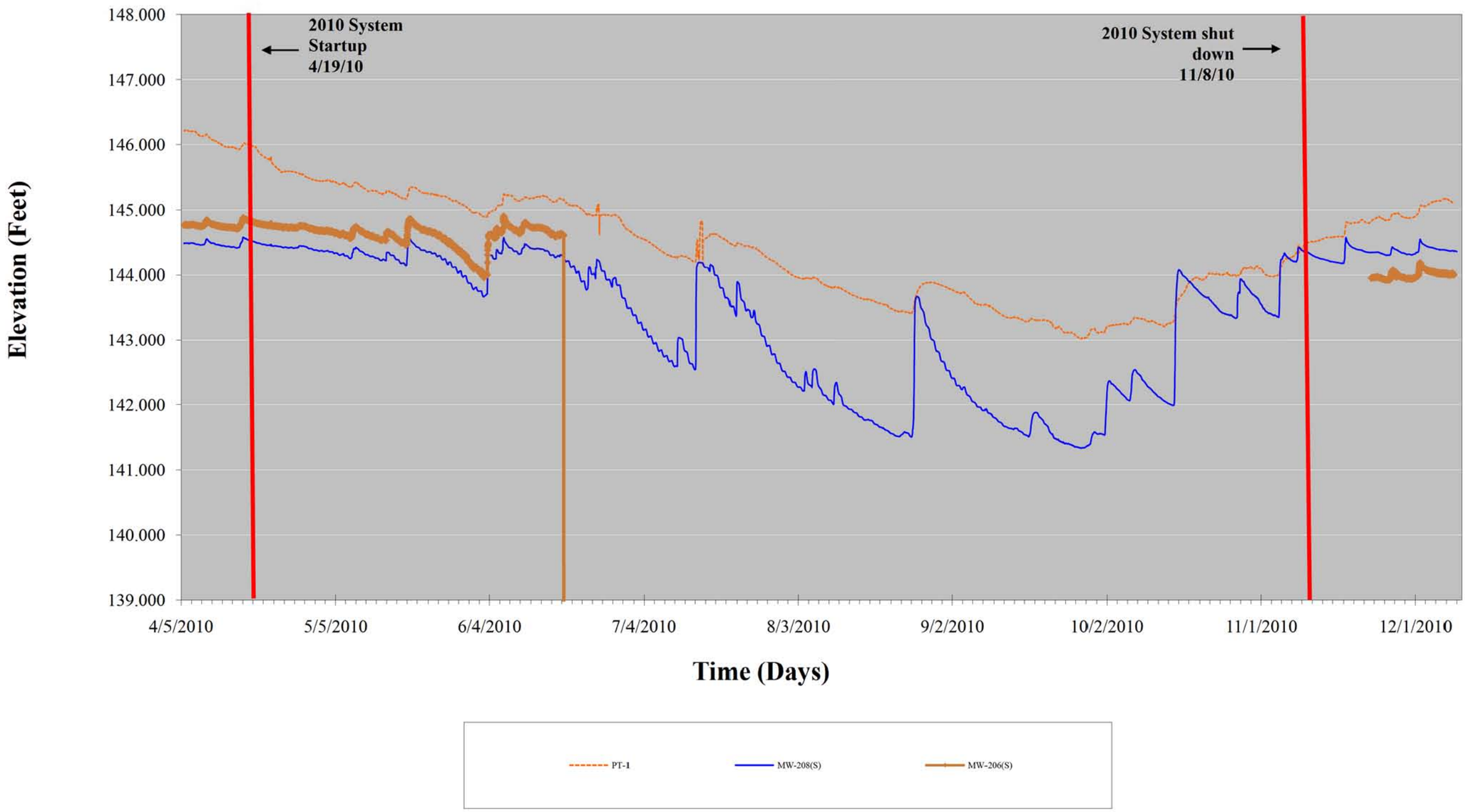
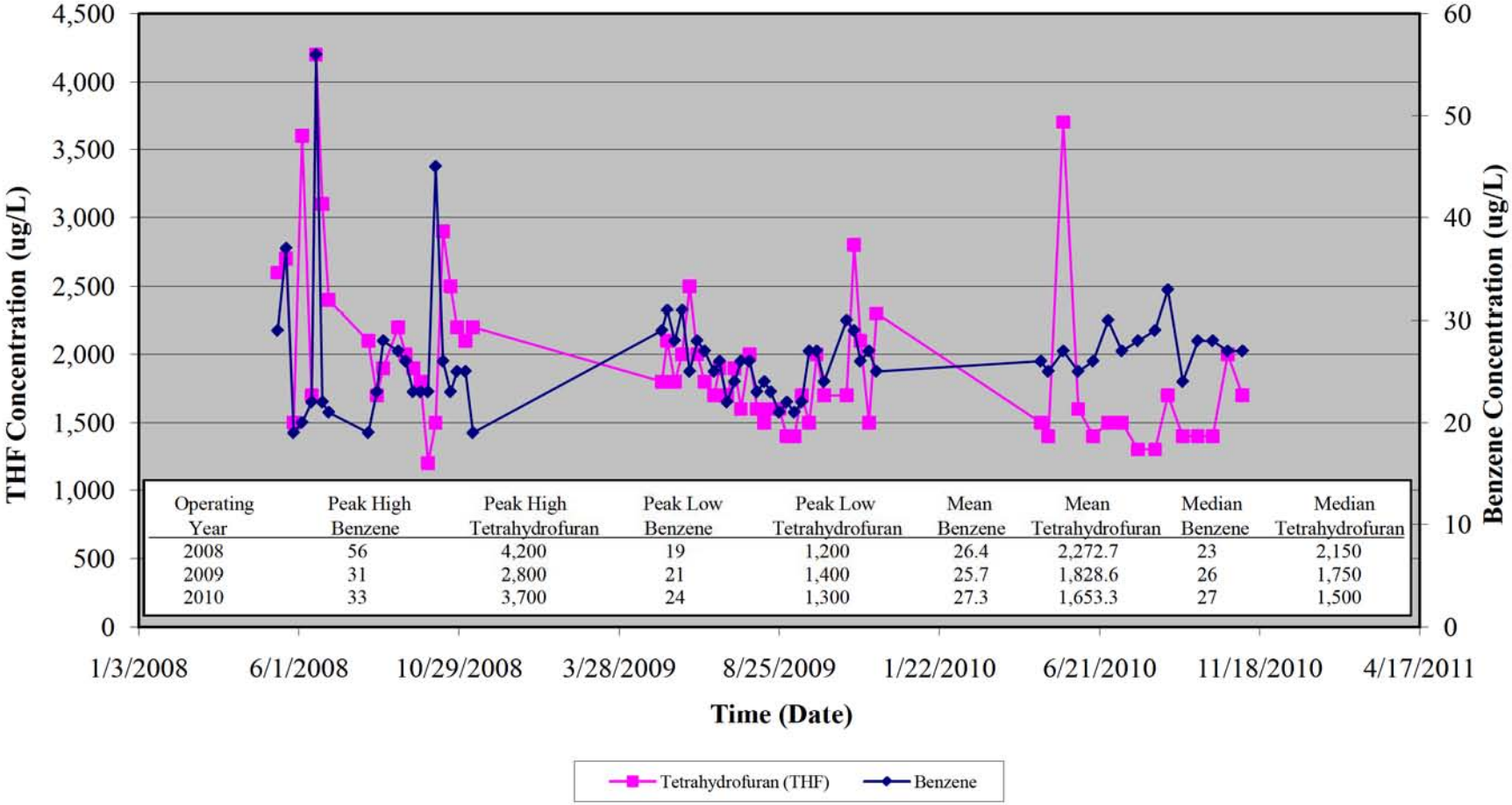
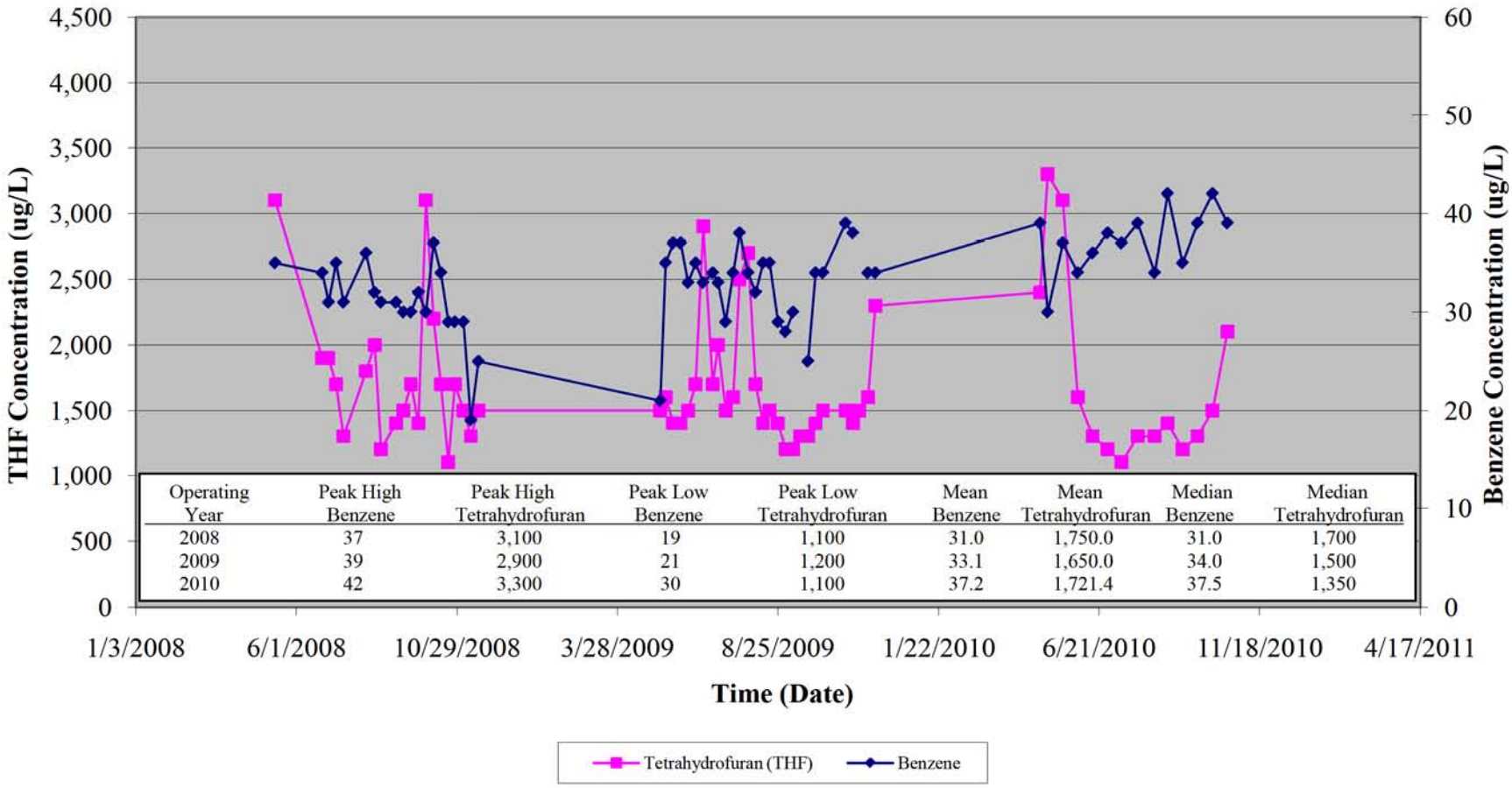


FIGURE 2
CONCENTRATION VERSUS TIME - MW-206I (2008 - PRESENT)
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

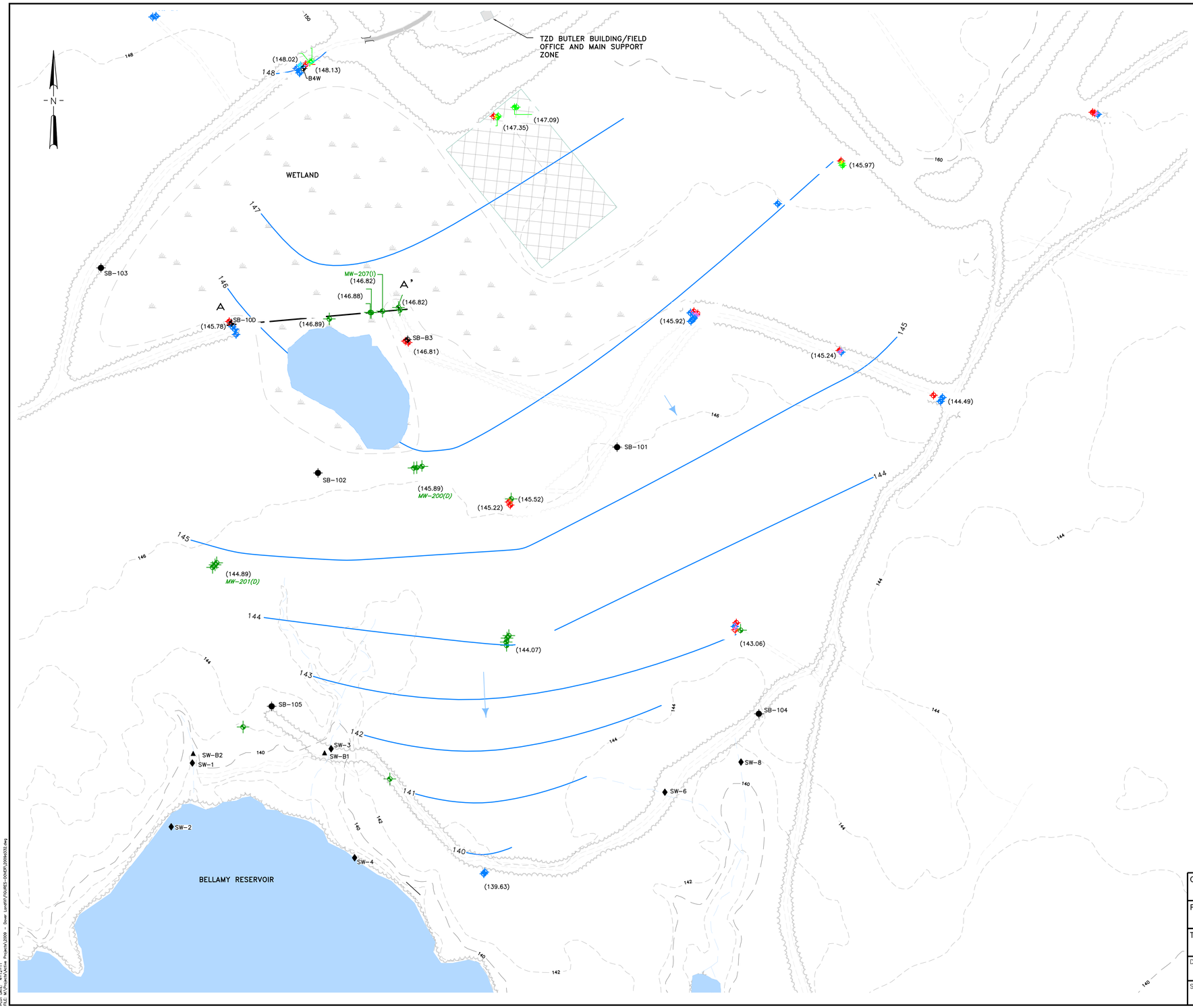


Operating Year	Peak High Benzene	Peak High Tetrahydrofuran	Peak Low Benzene	Peak Low Tetrahydrofuran	Mean Benzene	Mean Tetrahydrofuran	Median Benzene	Median Tetrahydrofuran
2008	56	4,200	19	1,200	26.4	2,272.7	23	2,150
2009	31	2,800	21	1,400	25.7	1,828.6	26	1,750
2010	33	3,700	24	1,300	27.3	1,653.3	27	1,500

FIGURE 3
CONCENTRATION VERSUS TIME - SB-4D (2008-PRESENT)
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



Operating Year	Peak High Benzene	Peak High Tetrahydrofuran	Peak Low Benzene	Peak Low Tetrahydrofuran	Mean Benzene	Mean Tetrahydrofuran	Median Benzene	Median Tetrahydrofuran
2008	37	3,100	19	1,100	31.0	1,750.0	31.0	1,700
2009	39	2,900	21	1,200	33.1	1,650.0	34.0	1,500
2010	42	3,300	30	1,100	37.2	1,721.4	37.5	1,350



LEGEND

SC-7US	EMP WELL SAMPLING LOCATION AND DESIGNATION
SC-7UUI	ADDITIONAL WELL SAMPLING LOCATION AND DESIGNATION (DECEMBER 1995 TO PRESENT)
MW-17US	WELL LOCATIONS WHERE EMP WATER LEVELS ARE OBTAINED (IE, EMP SAMPLING IS NOT PERFORMED)
OW-2	WELL LOCATIONS WHERE WATER LEVELS ARE NOT OBTAINED AND SAMPLING IS NOT PERFORMED
SW-A	EMP SURFACE WATER SAMPLING LOCATION
SC-30	SENTINEL WELL SAMPLING LOCATION AND DESIGNATION
SW-3	SURFACE WATER GAUGING STATION
SB	SOIL BORING LOCATION (GEOINSIGHT 2006)
MW-201	SOIL BORING/MONITORING WELL (GEOINSIGHT 2007)
150	EXISTING TOPOGRAPHIC CONTOUR
	PAVED ROAD
	UNPAVED ROAD OR DRIVE
145	GROUND WATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	INFERRED DIRECTION OF GROUND WATER FLOW
(145.22)	GROUND WATER ELEVATION
A ——— A'	SECTION LINE (SEE FIGURE 6)

NOTES:

1. EXISTING CONDITIONS TAKEN FROM TOPOGRAPHIC WORKSHEET OF THE DOVER (NH) LANDFILL FOR GOLDER ASSOCIATES INC., MANCHESTER NH, BY EASTERN TOPOGRAPHICS, WOLFBORO, NH. ORIGINAL SCALE 1"=50', CONTOUR INTERVAL 2', PHOTO DATE: 13 APRIL 92.

2. MONITORING WELL LOCATIONS AND SITE FEATURES UPDATED IN NOVEMBER 2007, BASED UPON COMPREHENSIVE SITE SURVEY PERFORMED BY VERMONT SURVEY AND ENGINEERING, INC. OF MONTPELIER, VERMONT. HORIZONTAL – NAD_83(CORS96) SPC(2800 NH) U.S. FEET VERTICAL – NAVD88(GEOID03) FEET

3. LOCATION OF SURFACE WATER SAMPLING STATION SW-8 IS APPROXIMATE.

4. GROUND WATER ELEVATION DATA CONTOURED USING LINEAR TRIANGULATION INTERPOLATION METHODS USING CARLSON CIVIL 2010 SOFTWARE. SMOOTHING TECHNIQUES WERE NOT APPLIED TO THE DATA SET.

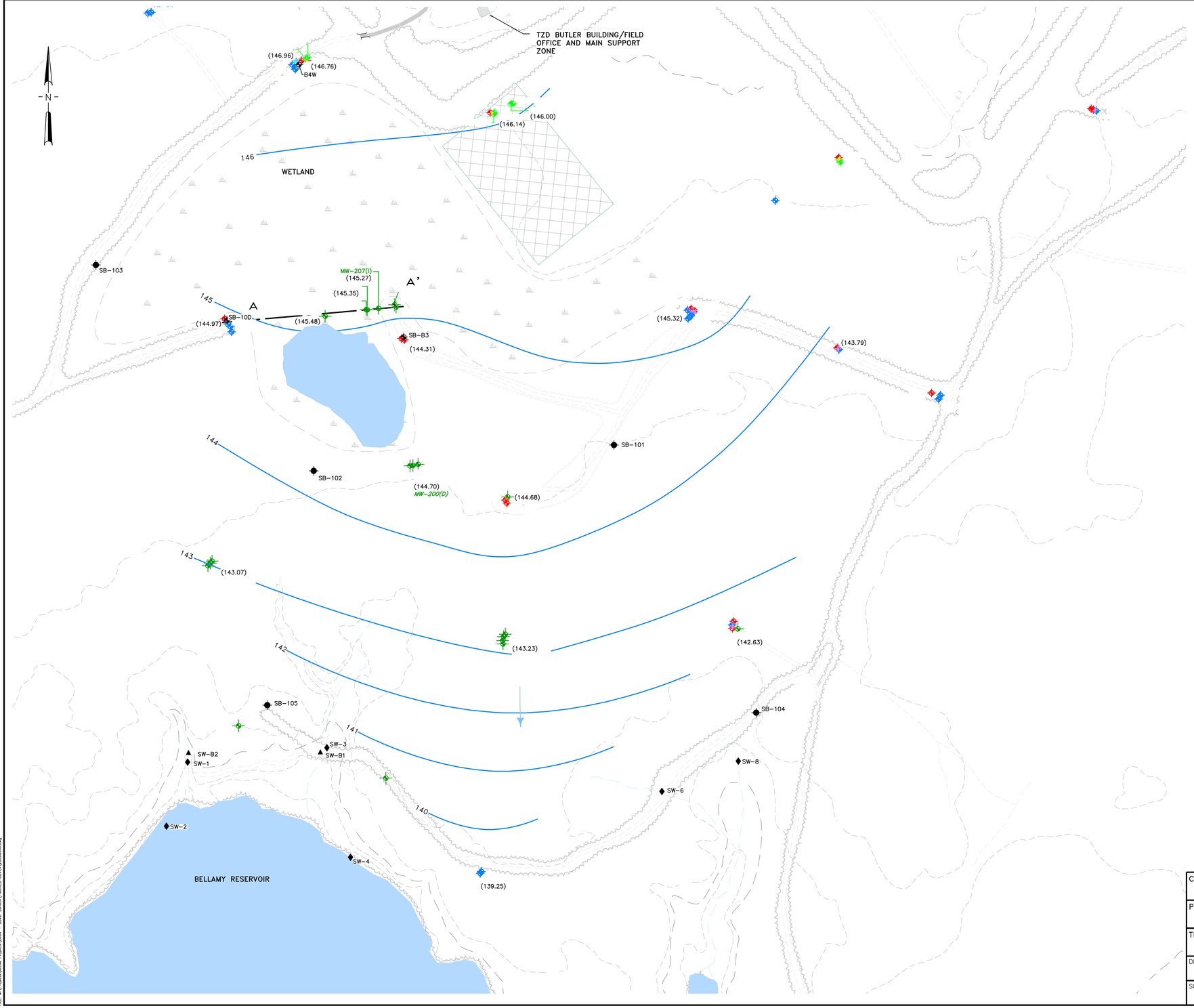
0 100 200
APPROX. SCALE IN FEET

CLIENT: DOVER GROUP			
PROJECT: DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NEW HAMPSHIRE			
TITLE: GROUND WATER CONTOUR MAP UUI UNIT – MARCH 26, 2010			
DESIGNED: CAB	DRAWN: NMT	CHECKED: CAB	APPROVED: MJW
SCALE: 1" = 100'	DATE: 02/14/11	FILE NO.: 2009D332	PROJECT NO.: 2009-009

GeoInsight
Practical in Nature

FIGURE NO.: 4

PLOT DATE: 4-12-11
FILE: U:\Projects\Dover Project\2009 - Dover Landfill\FIGURES-DOVER\2009D332.dwg



LEGEND

SC-7US	EMP WELL SAMPLING LOCATION AND DESIGNATION
SC-7UUI	ADDITIONAL WELL SAMPLING LOCATION AND DESIGNATION (DECEMBER 1995 TO PRESENT)
MW-17US	WELL LOCATIONS WHERE EMP WATER LEVELS ARE OBTAINED (IE, EMP SAMPLING IS NOT PERFORMED)
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SW-A	EMP SURFACE WATER SAMPLING LOCATION
SC-30	SENTINEL WELL SAMPLING LOCATION AND DESIGNATION
SW-3	SURFACE WATER GAUGING STATION
SB	SOIL BORING LOCATION (GEOINSIGHT 2006)
MW-201	SOIL BORING/MONITORING WELL (GEOINSIGHT 2007)
150	EXISTING TOPOGRAPHIC CONTOUR
	PAVED ROAD
	UNPAVED ROAD OR DRIVE
145	GROUND WATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	INFERRED DIRECTION OF GROUND WATER FLOW
(145.22)	GROUND WATER ELEVATION
A —— A'	SECTION LINE (SEE FIGURE 6)

NOTES:

1. EXISTING CONDITIONS TAKEN FROM TOPOGRAPHIC WORKSHEET OF THE DOVER (NH) LANDFILL FOR GOLDER ASSOCIATES INC., MANCHESTER NH, BY EASTERN TOPOGRAPHICS, WOLFBORO, NH. ORIGINAL SCALE 1"=50', CONTOUR INTERVAL 2', PHOTO DATE: 13 APRIL 92.

2. MONITORING WELL LOCATIONS AND SITE FEATURES UPDATED IN NOVEMBER 2007, BASED UPON COMPREHENSIVE SITE SURVEY PERFORMED BY VERMONT SURVEY AND ENGINEERING, INC. OF MONTPELIER, VERMONT. HORIZONTAL – NAD_83(CORS96) SPC(2800 NH) U.S. FEET VERTICAL – NAVD88(GEOID03) FEET

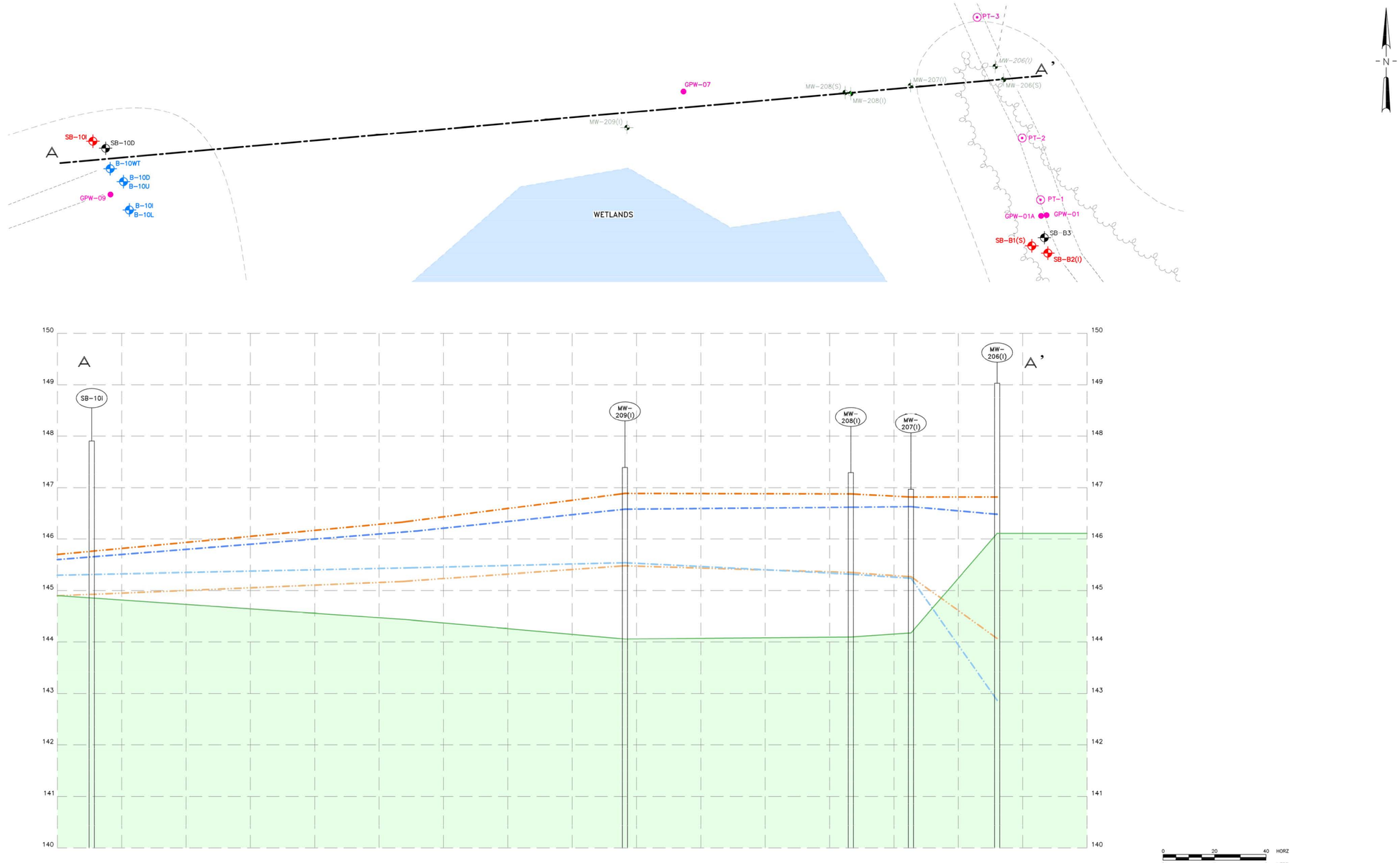
3. LOCATION OF SURFACE WATER SAMPLING STATION SW-8 IS APPROXIMATE.

4. GROUND WATER ELEVATION DATA CONTOURED USING LINEAR TRIANGULATION INTERPOLATION METHODS USING CARLSON CIVIL 2010 SOFTWARE. SMOOTHING TECHNIQUES WERE NOT APPLIED TO THE DATA SET.

0 100 200
APPROX. SCALE IN FEET

CLIENT: DOVER GROUP				GeoInsight Practical in Nature
PROJECT: DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NEW HAMPSHIRE				
TITLE: GROUND WATER CONTOUR MAP UUI UNIT – NOVEMBER 8, 2010				
DESIGNED: CAB	DRAWN: NMT	CHECKED: CAB	APPROVED: MJW	
SCALE: 1" = 100'	DATE: 02/14/11	FILE NO.: 2009D333	PROJECT NO.: 2009-009	FIGURE NO.: 5

PLOT DATE: 4-12-11
FILE: G:\Projects\Active Projects\2009 - Dover Landfill\FIGURES-DOVER\2009d333.dwg



NOTES:

1. EXISTING CONDITIONS TAKEN FROM TOPOGRAPHIC WORKSHEET OF THE DOVER (NH) LANDFILL FOR GOLDER ASSOCIATES INC., MANCHESTER NH, BY EASTERN TOPOGRAPHICS, WOLFBORO, NH. ORIGINAL SCALE 1"=50', CONTOUR INTERVAL 2', PHOTO DATE: 13 APRIL 92.

2. SITE FEATURES UPDATED IN NOVEMBER 2007, BASED UPON A SITE SURVEY PERFORMED BY VERMONT SURVEY AND ENGINEERING, INC. OF MONTPELIER, VERMONT.

3. A FOCUSED SURVEY WAS PERFORMED IN JUNE 2010 BY VERMONT SURVEY AND ENGINEERING, INC. OF MONTPELIER, VERMONT, CONSISTING OF A 1-FOOT CONTOUR INTERVAL, CENTERED ON AN APPROXIMATE 3,500-FOOT SECTION OF THE PERIMETER DITCH.

4. AS = AIR SPARGE; VOC = VOLATILE ORGANIC COMPOUNDS; SVE = SOIL VAPOR EXTRACTION.

LEGEND

- WATER ELEVATION APRIL 16, 2009 (NON-PUMPING CONDITIONS)
- WATER ELEVATION OCTOBER 6, 2009 (PUMPING CONDITIONS)
- WATER ELEVATION MARCH 26, 2010 (NON-PUMPING CONDITIONS)
- WATER ELEVATION NOVEMBER 8, 2010 (PUMPING CONDITIONS)
- EXISTING GROUND SURFACE

NO.	DESCRIPTION	DATE

REVISIONS

CLIENT: DOVER GROUP

PROJECT: DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

TITLE: CROSS SECTION A-A'

DESIGNED:	DRAWN:	CHECKED:	APPROVED:
KEZ	NMT	CAB	MCP
SCALE: 1" = 200'	DATE: 03/24/11	FILE NO.: 2009D336	PROJECT NO.: 2009-013

FIGURE NO.: 6

GeoInsight
Practical in Nature

PLOT DATE: 4-12-11
FILE NAME: Projects\2009 - Dover Landfill\FIGURES-DOVER\2009D336.dwg

APPENDIX A

LABORATORY ANALYTICAL DATA (ON CD)

FRAC TANK

ChemServe ENVIRONMENTAL ANALYSTS

317 Elm Street
Milford, NH 03055
(603) 673-5440
Fax (603) 673-0366
Sales@chemservelab.com

Saturday, October 23, 2010

Jane Borkland
Resource Laboratories
124 Heritage Avenue
Portsmouth NH 03801

Project Name: Formaldehyde
Project #: N/A
Project Location: N/A
Control #: 85708

Lab ID: 10100079
Date Received: 10/6/2010

Dear Jane Borkland

Enclosed please find the laboratory results for the above referenced samples that were received by the ChemServe sample custodian on the above referenced date. Any abnormalities to the samples upon receipt would be noted on the enclosed chain of custody document. This report is not valid without a completed ChemServe chain of custody with the corresponding control number, attached.

All samples analyzed by ChemServe are subject to quality standards. These standards are as stringent or more stringent than those established under NELAC, 40 CFR Part 136, state certification programs, and corresponding methodologies. ChemServe has a written QA/QC Procedures Manual that outlines these standards, and is available for your reference, upon request. Unless otherwise stated on the Chain of Custody or within the report, all holding times, preservation techniques, container types, and analytical methods are analogous with those outlined by NELAC. All units are based on "as received" weight unless denoted "dry".

I certify that I have reviewed the above referenced analytical data and state forms, and I have found this report within compliance with the procedures outlined within NELAC. ChemServe's certified parameter list can be found at http://www.chemservelab.com/Laboratory-Information-and-Documentation.aspx

Heather Beaudoin - QA/QC Manager

Jay Chrystal - President/Laboratory Director

This report includes 5 pages.

ACCREDITED IN ACCORDANCE WITH nela

Certificate Number 1008

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Resource Laboratories
Jane Borkland
124 Heritage Avenue
Portsmouth NH 03801

Control #: 85708
Project Number: N/A
Project Name: Formaldehyde
Project Location: N/A

Lab ID: 10100079
Date: 10/23/2010

Lab ID: 10100079

Sample Receiving and Comment Summary

Were Samples Submitted with a chain of custody?	Yes
Do all samples received match the chain of custody?	Yes
Were all samples received within holding times?	Yes
Were all containers intact when received?	Yes
Was there evidence of cooling?	Yes
Were samples for Volatile organic analysis free of headspace (per method)?	N/A
Was the cooler temperature recorded?	Yes
If the sample pH was not correct was it adjusted where applicable?	Yes
If samples for dissolved metals were not filtered were they filtered in the lab?	N/A

Sample	Method	Client Identity	Matrix	Analyst
10100079-001	SW 8315A	20109-01	Wastewater	CalebH

Comment: no comment

** Blank comment sections denote "No Comment"*

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Resource Laboratories
Jane Borkland
124 Heritage Avenue
Portsmouth NH 03801

Control #: 85708
Project Number: N/A
Project Name: Formaldehyde
Project Location: N/A

Analytical Results

Lab ID: 10100079
Date: 10/23/2010

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
10100079-001	SW 8315A	20109-01		Wastewater	CalebH

Start Date/Time Sampled: 10/5/2010 7:50:00 AM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Extraction Formaldehyde				10/7/2010 8:20:00 AM	1	0
Formaldehyde	50-00-0	72 ug/L		10/8/2010 9:58:00 AM	1	25

Qualifier:	Description:
B-	Method blank contaminated with target analyte.
B1-	BOD had total oxygen loss. Result reported as ">"the highest dilution.
B2-	BOD had no oxygen loss. Result reported as "<" the lowest dilution.
G-	Reporting limit elevated due to matrix interference.
H-	Method prescribed holding time exceeded.
J-	Indicates an estimated value. Value is less than the quantitation limit.
LH-	Laboratory control spike(s) was high. Results may be biased high.
LL-	Laboratory control spike(s) was low. Results may be biased low.
MH-	Matrix spike recovery high due to matrix. Results may be biased high.
ML-	Matrix spike recovery low due to matrix. Results may be biased low.
NC-	Spike recovery was not calculated due to the concentration of the analyte being >4 times the concentration of the spike added.
R-	RPD outside acceptable recovery limits.
RO-	Sample received out of holding time.
SH-	Surrogate recovery high due to matrix
SL-	Surrogate recovery low due to matrix
TNTC-	Too numerous to count.
U-	BOD/CBOD blank had an oxygen depletion greater than the suggested amount of 0.200.

Chemserve

PAG

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: See Above

Company Address:

Report To: Jane Borkland

Phone #:

Invoice To: Sue Sylvester

Project Name:

Project #: 20109

Project Location: (NH) MA ME VT Other

Protocol: RCRA SDWA (NPDES) MCP NHDES OTHER

Reporting Limits: QAPP GW-1 S-1 EPA DW Other

Quote # ☐ NH GRE E/ODD Fund Pricing

PO # 20109

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
	20109-01 (Frac Tank-7-10)	1	X									10/5	0750	

TAT REQUESTED
Priority (24 hr)** ☐
Expedited (48 hr)** ☐
Standard (10 Business Days) ☐
**Date Needed _____

* See www.reslabs.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) janebere@reslabs.com & jennifere@reslabs.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#) _____ ☐ OTHER (specify) _____

RECEIVED ON IC
TEMPERATURE

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date
Relinquished by: x Jane King	10-6-10	11:30	Received by: [signature]	10/6/1
Relinquished by:	Date	Time	Received by Laboratory: Way Bill#: 10100079	Date 10/21

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 20109
Date Received: 10/5/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 10/27/2010
Total number of pages: 5

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Lab ID: 20109
Lab Number: 20109-001
Sample ID: Frac Tank-7-10
Matrix: Water
Sampled: 10/5/10 7:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
diethyl ether	**60**	5	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
tetrahydrofuran (THF)	**1100**	50	ug/L	5	LMM		1002267	10/8/10	23:11	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
benzene	**18**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
ethylbenzene	**8**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
m&p-xylenes	**55**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B

Project ID: Dover Landfill 2009-009

Lab ID: 20109

Lab Number: 20109-001

Sample ID: Frac Tank-7-10

Matrix: Water

Sampled: 10/5/10 7:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**6**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
isopropylbenzene	**6**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,3,5-trimethylbenzene	**3**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2,4-trimethylbenzene	**9**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2-dichlorobenzene	**3**	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
naphthalene	**6**	5	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	92	78-114	%	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
toluene-D8 SUR	100	88-110	%	1	LMM		1002267	10/8/10	22:40	SW5030B8260B
4-bromofluorobenzene SUR	86	86-115	%	1	LMM		1002267	10/8/10	22:40	SW5030B8260B

Project ID: Dover Landfill 2009-009

Lab ID: 20109

Lab Number: 20109-001

Sample ID: Frac Tank-7-10

Matrix: Water

Sampled: 10/5/10 7:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Antimony	< 0.006	0.006	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Arsenic	**0.008**	0.008	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Beryllium	< 0.004	0.004	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Cadmium	< 0.004	0.004	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Chromium	< 0.05	0.05	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Copper	< 0.05	0.05	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Lead	< 0.008	0.008	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Mercury	< 0.0002	0.0002	mg/L	1	BJS	10/8/10	3676	10/8/10	12:02	SW7470A
Molybdenum	< 0.05	0.05	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Nickel	< 0.05	0.05	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Selenium	< 0.05	0.05	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Silver	< 0.007	0.007	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Thallium	**0.002**	0.002	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B
Zinc	< 0.05	0.05	mg/L	1	BJS	10/7/10	3673	10/7/10	16:16	SW3005A6010B

Lab Number: 20109-001

Sample ID: Frac Tank-7-10

Matrix: Water

Sampled: 10/5/10 7:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Biochemical Oxygen Demand (BOD)	**34**	5	mg/L	1	APA		1002263	10/6/10	5:45	SM5210B
Cyanide, total	< 0.02	0.02	mg/L	1	APA		1002216	10/6/10		SM4500CN-E
Phenols (total)	< 0.05	0.05	mg/L	1	APA		1002266	10/11/10		E420.1
Sulfide	< 0.04	0.04	mg/L	1	APA		1002251	10/8/10		SM4500-S
Total Suspended Solids (TSS)	**16**	5	mg/L	1	APA		1002244	10/6/10		SM2540D
pH	**6.5** *		pH	1	APA		1002245	10/5/10	13:00	SM4500H+B

* Sample was received beyond method holding time.

317 Elm Street
Milford, NH 03055

(603) 673-5440
Fax (603) 673-0366
Sales@chemservelab.com

Monday, August 16, 2010

Sue Sylvester
Resource Laboratories
124 Heritage Avenue
Portsmouth NH 03801

Project Name: Formaldehyde
Project #: N/A
Project Location: N/A
Control #: 84720

Lab ID: 10080046

Date Received: 8/3/2010

Dear Sue Sylvester

Enclosed please find the laboratory results for the above referenced samples that were received by the ChemServe sample custodian on the above referenced date. Any abnormalities to the samples upon receipt would be noted on the enclosed chain of custody document. This report is not valid without a completed ChemServe chain of custody with the corresponding control number, attached.

All samples analyzed by ChemServe are subject to quality standards. These standards are as stringent or more stringent than those established under NELAC, 40 CFR Part 136, state certification programs, and corresponding methodologies. ChemServe has a written QA/QC Procedures Manual that outlines these standards, and is available for your reference, upon request. Unless otherwise stated on the Chain of Custody or within the report, all holding times, preservation techniques, container types, and analytical methods are analogous with those outlined by NELAC. All units are based on "as received" weight unless denoted "dry".

I certify that I have reviewed the above referenced analytical data and state forms, and I have found this report within compliance with the procedures outlined within NELAC. ChemServe's certified parameter list can be found at http://www.chemservelab.com/Laboratory-Information-and-Documentation.aspx

Heather Beaudoin - QA/QC Manager

Jay Chrystal - President/Laboratory Director

This report includes 6 pages.

Accredited in accordance with nelac

Certificate Number 1008

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Resource Laboratories
Sue Sylvester
124 Heritage Avenue
Portsmouth NH 03801

Control #: 84720
Project Number: N/A
Project Name: Formaldehyde
Project Location: N/A

Lab ID: 10080046
Date: 8/16/2010

Lab ID: 10080046

Sample Receiving and Comment Summary

Were Samples Submitted with a chain of custody?	Yes
Do all samples received match the chain of custody?	Yes
Were all samples received within holding times?	Yes
Were all containers intact when received?	Yes
Was there evidence of cooling?	Yes
Were samples for Volatile organic analysis free of headspace (per method)?	N/A
Was the cooler temperature recorded?	Yes
If the sample pH was not correct was it adjusted where applicable?	Yes
If samples for dissolved metals were not filtered were they filtered in the lab?	N/A

Sample	Method	Client Identity	Matrix	Analyst
10080046-001	SW 8315A	19697-01 Frac Tank-5-10	Wastewater	TimD

Comment: No Comment

** Blank comment sections denote "No Comment"*

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Resource Laboratories
Sue Sylvester
124 Heritage Avenue
Portsmouth NH 03801

Control #: 84720
Project Number: N/A
Project Name: Formaldehyde
Project Location: N/A

Analytical Results
Lab ID: 10080046
Date: 8/16/2010

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
10080046-001	SW 8315A	19697-01 Frac Tank-5-10		Wastewater	CalebH

Start Date/Time Sampled: 8/3/2010 8:00:00 AM **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Extraction Formaldehyde				8/4/2010 3:45:00 PM	1	0
Formaldehyde	50-00-0	280 ug/L		8/5/2010	1	25

Qualifier:	Description:
B-	Method blank contaminated with target analyte.
B1-	BOD had total oxygen loss. Result reported as ">"the highest dilution.
B2-	BOD had no oxygen loss. Result reported as "<" the lowest dilution.
G-	Reporting limit elevated due to matrix interference.
H-	Method prescribed holding time exceeded.
J-	Indicates an estimated value. Value is less than the quantitation limit.
LH-	Laboratory control spike(s) was high. Results may be biased high.
LL-	Laboratory control spike(s) was low. Results may be biased low.
MH-	Matrix spike recovery high due to matrix. Results may be biased high.
ML-	Matrix spike recovery low due to matrix. Results may be biased low.
NC-	Spike recovery was not calculated due to the concentration of the analyte being >4 times the concentration of the spike added.
R-	RPD outside acceptable recovery limits.
RO-	Sample received out of holding time.
SH-	Surrogate recovery high due to matrix
SL-	Surrogate recovery low due to matrix
TNTC-	Too numerous to count.
U-	BOD/CBOD blank had an oxygen depletion greater than the suggested amount of 0.200.

ChemServe

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: See Above
Phone #:
FAX #:
Company Address:
Site Location (City, State):
Project Manager: Jane Borkland
Project ID / Name: 19697
Invoice To: Sue Sylvester
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER	Formaldehyde	Grab (G) or Composite (C)
	19697-01 (FracTanks-10)	1	X									8/3	0800		X	

ANALYSIS REQUEST: ☐ VOC 8260-NH List ☐ MADEP VPH ☐ MEGRO; ☐ VOC 8260 ☐ VOC8015GRO ☐ VOC 624; ☐ VOC 8260 BTEX, MtBE, Naphthalene only; ☐ VOC 524.2 ☐ VOC 524.2 NH List; ☐ TPH Fingerprint ☐ MEDRO ☐ DRO 8015 ☐ EPH; ☐ 8270PAH ☐ 8270ABN ☐ 625; ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608; ☐ O&G 1664 ☐ O&G SM5520F; ☐ pH ☐ BOD ☐ Conductivity; ☐ TSS ☐ TDS ☐ TS; ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals; ☐ Total Metals-list ☐ Dissolved Metals-list; ☐ Ammonia ☐ COD; ☐ T-Phosphate ☐ Phenol; ☐ Cyanide ☐ Sulfide; ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride; ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP; ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC; ☐ TCLP Pesticide ☐ TCLP Herbicides (subcontract); ☐ Standard Drinking Water Test ☐ Bacteria P/A

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Other ☐

8/10 if possible w/out rush charge Thanks!!

E-Mail Address
Quote #
PO # 19697

SPECIAL INSTRUCTIONS
janebe@reslabs.com, jennifrzer@reslabs.com

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☒ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE _____ °C

Lab Use Only

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
Relinquished by: X	8/3/10	12	Received by:		
Relinquished by:			Received by Laboratory: Way Bill#:	8-3-10	12:00

Chain of Custody No. 84720

Multiple COC's Yes No

ChemServe ENVIRONMENTAL ANALYSTS

CHAIN OF CUSTODY

317 Elm Street Milford, NH 03055
(603) 673-5440/ Fax (603) 673-0366

Ⓐ CUSTOMER INFORMATION

CUSTOMER: Resource Labs.

ADDRESS:

CITY/STATE/ZIP

TELEPHONE:

REPORT TO:

P.O. NUMBER:

Ⓑ PROJECT INFORMATION

JOB NAME:

JOB NUMBER:

LOCATION:

TELEPHONE:

CONTACT:

QUOTE NUMBER:

Ⓒ SAMPLE INFORMATION

TURNAROUND TIME: (CIRCLE ONE:)

STANDARD RUSH

RUSH T.A.T. _____ (CHECK w/LAB)

MCP ☐ YES ☐ NO ☐ GW1 ☐ GW2 ☐ GW3

STATION # Ⓓ	SAMPLE IDENTIFICATION & LOCATION Ⓔ	COLLECTED Ⓕ DATE	COLLECTED Ⓖ TIME	SAMPLE TYPE Ⓗ GRAB	SAMPLE TYPE Ⓗ COMP	Ⓘ MATRIX SOLID (S) LIQUID (L) COMBINED (C) HAZARD (H)	Ⓙ # OF CONTAINERS	Ⓚ CONTAINER AND PRESERVATIVE										Ⓛ ANALYSIS
		DATE	TIME															
		DATE	TIME															
		DATE	TIME															
		DATE	TIME															
		DATE	TIME															
		DATE	TIME															
		DATE	TIME															
		DATE	TIME															

Ⓜ CUSTODY

SAMPLER: _____ (print name)

SIGNATURE:

	DATE	MILITARY TIME
RELINQUISHED:	DATE	TIME
RECEIVED:	DATE	TIME
RELINQUISHED:	DATE	TIME
RECEIVED FOR LAB: Victoria R. Pratt	3/3/10	1200

SAMPLE CHECK LIST:

RECEIVED WITHIN HOLD TIME (YES) OR NO

RECEIVED IN GOOD CONDITION (YES) OR NO

TEMP BLANK 6.6°C

SHIPPED OR (HAND DELIVERED)

SAMPLES WERE PROPERLY PRESERVED (YES) NO N/A

SAMPLES WERE FILTERED IN FIELD LAB (N/A)

IF NO EXPLAIN:

GROUP # 100800116 8/17

FIELD READING(S) & COMMENTS:

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 19697
Date Received: 8/3/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 8/16/2010
Total number of pages: 5

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: 2009-009 Dover Landfill
Lab ID: 19697
Lab Number: 19697-001
Sample ID: Frac Tank-5-10
Matrix: Water
Sampled: 8/3/10 8:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
chloroethane	**3**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
diethyl ether	**110**	5	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
tetrahydrofuran (THF)	**1300**	50	ug/L	5	LMM		1001699	8/3/10	23:11	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
benzene	**25**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
toluene	**10**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
chlorobenzene	**2**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
ethylbenzene	**21**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
m&p-xylenes	**73**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B

Project ID: 2009-009 Dover Landfill
Lab ID: 19697
Lab Number: 19697-001
Sample ID: Frac Tank-5-10
Matrix: Water
Sampled: 8/3/10 8:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
o-xylene	**19**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
isopropylbenzene	**18**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,3,5-trimethylbenzene	**4**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2,4-trimethylbenzene	**7**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
4-isopropyltoluene	**3**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2-dichlorobenzene	**3**	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
toluene-D8 SUR	105	88-110	%	1	LMM		1001699	8/3/10	22:39	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	1	LMM		1001699	8/3/10	22:39	SW5030B8260B

Project ID: 2009-009 Dover Landfill
Lab ID: 19697
Lab Number: 19697-001
Sample ID: Frac Tank-5-10
Matrix: Water
Sampled: 8/3/10 8:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Antimony	**0.007**	0.006	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Arsenic	**0.047**	0.008	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Beryllium	< 0.004	0.004	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Cadmium	< 0.004	0.004	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Chromium	< 0.05	0.05	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Copper	< 0.05	0.05	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Lead	< 0.008	0.008	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Mercury	< 0.0009	0.0009	mg/L	1	BJS	8/6/10	3512	8/6/10	15:47	SW7470A
Molybdenum	< 0.05	0.05	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Nickel	< 0.05	0.05	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Selenium	< 0.05	0.05	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Silver	< 0.007	0.007	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Thallium	< 0.002	0.002	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B
Zinc	< 0.05	0.05	mg/L	1	BJS		1001696	8/3/10	15:02	SW3005A6010B

Lab Number: 19697-001
Sample ID: Frac Tank-5-10
Matrix: Water
Sampled: 8/3/10 8:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Biochemical Oxygen Demand (BOD)	**25**	5	mg/L	1	APA		1001751	8/5/10	6:45	SM5210B
Cyanide, total	< 0.02	0.02	mg/L	1	APA		1001739	8/6/10		SM4500CN-E
Phenols (total)	**0.05**	0.05	mg/L	1	APA		1001735	8/9/10		E420.1
Sulfide	< 0.04	0.04	mg/L	1	APA		1001698	8/4/10		SM4500-S
Total Suspended Solids (TSS)	**66**	5	mg/L	1	APA		1001710	8/4/10		SM2540D
pH	**6.5** *		pH	1	APA		1001695	8/3/10	10:35	SM4500H+B

* Sample was received beyond method holding time.

317 Elm Street
Milford, NH 03055
(603) 673-5440
Fax (603) 673-0366
Sales@chemservelab.com

Wednesday, September 22, 2010

Jane Borkland

Resource Laboratories
124 Heritage Avenue
Portsmouth NH 03801

Project Name: Formaldehyde
Project #: N/A
Project Location: N/A
Control #: 85293

Lab ID: 10090073
Date Received: 9/8/2010

Dear Jane Borkland

Enclosed please find the laboratory results for the above referenced samples that were received by the ChemServe sample custodian on the above referenced date. Any abnormalities to the samples upon receipt would be noted on the enclosed chain of custody document. This report is not valid without a completed ChemServe chain of custody with the corresponding control number, attached.

All samples analyzed by ChemServe are subject to quality standards. These standards are as stringent or more stringent than those established under NELAC, 40 CFR Part 136, state certification programs, and corresponding methodologies. ChemServe has a written QA/QC Procedures Manual that outlines these standards, and is available for your reference, upon request. Unless otherwise stated on the Chain of Custody or within the report, all holding times, preservation techniques, container types, and analytical methods are analogous with those outlined by NELAC. All units are based on "as received" weight unless denoted "dry".

I certify that I have reviewed the above referenced analytical data and state forms, and I have found this report within compliance with the procedures outlined within NELAC. ChemServe's certified parameter list can be found at http://www.chemservelab.com/Laboratory-Information-and-Documentation.aspx

Heather Beaudoin - QA/QC Manager

Jay Chrystal - President/Laboratory Director

This report includes 5 pages.

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Resource Laboratories
Jane Borkland
124 Heritage Avenue
Portsmouth NH 03801

Control #: 85293
Project Number: N/A
Project Name: Formaldehyde
Project Location: N/A

Lab ID: 10090073
Date: 9/22/2010

Lab ID: 10090073

Sample Receiving and Comment Summary

Were Samples Submitted with a chain of custody?	Yes
Do all samples received match the chain of custody?	Yes
Were all samples received within holding times?	Yes
Were all containers intact when received?	Yes
Was there evidence of cooling?	Yes
Were samples for Volatile organic analysis free of headspace (per method)?	N/A
Was the cooler temperature recorded?	Yes
If the sample pH was not correct was it adjusted where applicable?	Yes
If samples for dissolved metals were not filtered were they filtered in the lab?	N/A

Sample	Method	Client Identity	Matrix	Analyst
10090073-001	SW 8315A	19931-01	Wastewater	CalebH

Comment: no comment

** Blank comment sections denote "No Comment"*

317 Elm Street
Milford, NH 03055
(603) 673-5440
Sales@chemservelab.com

Resource Laboratories
Jane Borkland
124 Heritage Avenue
Portsmouth NH 03801

Control #: 85293
Project Number: N/A
Project Name: Formaldehyde
Project Location: N/A

Analytical Results

Lab ID: 10090073
Date: 9/22/2010

Sample	Method	Client Sample Identity	Units	Matrix	Analyst
10090073-001	SW 8315A	19931-01		Wastewater	CalebH

Start Date/Time Sampled: 9/7/2010 **Composite End Date/Time:**

Parameter	CAS Number	Result	Qualifier	Date/Time Analyzed	Dilution Factor	RDL
Extraction Formaldehyde				9/9/2010 4:00:00 PM	1	0
Formaldehyde	50-00-0	280 ug/L		9/10/2010	1	25

Qualifier:	Description:
B-	Method blank contaminated with target analyte.
B1-	BOD had total oxygen loss. Result reported as ">"the highest dilution.
B2-	BOD had no oxygen loss. Result reported as "<" the lowest dilution.
G-	Reporting limit elevated due to matrix interference.
H-	Method prescribed holding time exceeded.
J-	Indicates an estimated value. Value is less than the quantitation limit.
LH-	Laboratory control spike(s) was high. Results may be biased high.
LL-	Laboratory control spike(s) was low. Results may be biased low.
MH-	Matrix spike recovery high due to matrix. Results may be biased high.
ML-	Matrix spike recovery low due to matrix. Results may be biased low.
NC-	Spike recovery was not calculated due to the concentration of the analyte being >4 times the concentration of the spike added.
R-	RPD outside acceptable recovery limits.
RO-	Sample received out of holding time.
SH-	Surrogate recovery high due to matrix
SL-	Surrogate recovery low due to matrix
TNTC-	Too numerous to count.
U-	BOD/CBOD blank had an oxygen depletion greater than the suggested amount of 0.200.

Phone: 603-436-2001 • Fax: 603-430-2100

ANALYSIS REQUEST

Company Name: See Above

Company Address:

Report To: Jane Borkland

Phone #:

Invoice To: Sue Sylvester

Project Name:

Project #: 19931

Project Location: NH MA ME VT ___ Other

Protocol: RCRA MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other S-1

Quote # ___ NH GREE/ODD Fund Pricing

PO # 19931

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
	19931-01	1	✓									9/7/10	—	

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MIBE only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate - Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC

TAT REQUESTED

Priority (24 hr)** [ ]
Expedited (48 hr)** [ ]
Standard (10 Business Days) [✓]
**Date Needed ___

* See www.reslabs.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) janeb@reslabs.com; jenniferz@reslabs.com

[ ] HARD COPY REQUIRED [ ] FAX (FAX#) ___ [ ] OTHER (specify) ___

RECEIVED ON

TEMPERATUR

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date
Relinquished by:	9/8/10	11:35	Received by:	
Relinquished by:	Date	Time	Received by Laboratory: Way Bill#:	Date 9-8-

10090073 91

Chain of Custody No. 85293

Multiple COC's Yes No

ChemServe ENVIRONMENTAL ANALYSTS

CHAIN OF CUSTODY

317 Elm Street Milfo
(603) 673-5440/ Fax (

A CUSTOMER INFORMATION

CUSTOMER: Lexuice Labs

ADDRESS:

CITY/STATE/ZIP

TELEPHONE:

REPORT TO:

P.O. NUMBER:

B PROJECT INFORMATION

JOB NAME:

JOB NUMBER:

LOCATION:

TELEPHONE:

CONTACT:

QUOTE NUMBER:

C SAMPLE INFORMATIO

TURNAROUND TIME: (CI

STANDARD

RUSH T.A.T. _____ (CH

MCP ☐ YES ☐ NO ☐ GW1 ☐ GW2

STATION # D	SAMPLE IDENTIFICATION & LOCATION E	COLLECTED F DATE	COLLECTED G TIME	SAMPLE TYPE H GRAB	SAMPLE TYPE H COMP	I MATRIX SOLID (S) LIQUID (L) COMBINED (C) HAZARD (H)	J # OF CONTAINERS	K CONTAINER AND PRESERVATIVE
		DATE	TIME					
		DATE	TIME					
		DATE	TIME					
		DATE	TIME					
		DATE	TIME					
		DATE	TIME					
		DATE	TIME					
		DATE	TIME					

M CUSTODY

SAMPLER: _____ (print name)

SIGNATURE:

	DATE	MILITARY TIME
RELINQUISHED:	DATE	TIME
RECEIVED:	DATE	TIME
RELINQUISHED:	DATE	TIME
RECEIVED FOR LAB: Victoria [illegible]	9/8/10	1135

SAMPLE CHECK LIST:

RECEIVED WITHIN HOLD TIME YES OR NO

RECEIVED IN GOOD CONDITION YES OR NO

TEMP BLANK 4.0 °C

SHIPPED OR HAND DELIVERED

SAMPLES WERE PROPERLY PRESERVED YES NO N/A

SAMPLES WERE FILTERED IN: FIELD LAB N/A

IF NO EXPLAIN:

GROUP # 10090073 9/21 22

FIELD READING(S)

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 19931
Date Received: 9/8/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 9/23/2010
Total number of pages: 5

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Lab ID: 19931
Lab Number: 19931-001
Sample ID: Frac Tank
Matrix: Water
Sampled: 9/7/10 8:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
diethyl ether	**49**	5	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
tetrahydrofuran (THF)	**1000**	50	ug/L	5	LMM		1002061	9/15/10	14:36	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
benzene	**7**	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
toluene	**2**	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
ethylbenzene	**6**	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
m&p-xylenes	**20**	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B

Project ID: Dover Landfill 2009-009

Lab ID: 19931

Lab Number: 19931-001

Sample ID: Frac Tank

Matrix: Water

Sampled: 9/7/10 8:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**6**	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
isopropylbenzene	**5**	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	94	78-114	%	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
toluene-D8 SUR	98	88-110	%	1	LMM		1002061	9/16/10	5:04	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	1	LMM		1002061	9/16/10	5:04	SW5030B8260B

Project ID: Dover Landfill 2009-009

Lab ID: 19931

Lab Number: 19931-001

Sample ID: Frac Tank

Matrix: Water

Sampled: 9/7/10 8:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Antimony	**0.006**	0.006	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Arsenic	**0.037**	0.008	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Beryllium	< 0.004	0.004	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Cadmium	< 0.004	0.004	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Chromium	< 0.05	0.05	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Copper	< 0.05	0.05	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Lead	< 0.008	0.008	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Mercury	< 0.0009	0.0009	mg/L	1	BJS	9/9/10	3594	9/9/10	14:15	SW7470A
Molybdenum	< 0.05	0.05	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Nickel	< 0.05	0.05	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Selenium	< 0.05	0.05	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Silver	< 0.007	0.007	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Thallium	< 0.002	0.002	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B
Zinc	< 0.05	0.05	mg/L	1	BJS	9/15/10	3606	9/15/10	13:40	SW3005A6010B

Lab Number: 19931-001

Sample ID: Frac Tank

Matrix: Water

Sampled: 9/7/10 8:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Biochemical Oxygen Demand (BOD)	**18**	5	mg/L	1	APA		1002021	9/9/10	7:00	SM5210B
Cyanide, total	< 0.02	0.02	mg/L	1	APA		1001999	9/10/10		SM4500CN-E
Phenols (total)	< 0.05	0.05	mg/L	1	APA		1002012	9/13/10		E420.1
Sulfide	< 0.04	0.04	mg/L	1	APA		1001996	9/10/10		SM4500-S
Total Suspended Solids (TSS)	**66**	5	mg/L	1	APA		1002009	9/9/10		SM2540D
pH	**6.8** *		pH	1	AJD		1002000	9/8/10	14:44	SM4500H+B

* Sample was received beyond method holding time.

INFLUENT EFFLUENT

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 20253
Date Received: 10/20/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 11/3/2010
Total number of pages: 6

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Job ID: 20253
Sample#: 20253-001
Sample ID: MW-206I
Matrix: Water
Sampled: 10/19/10 13:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
chloroethane	**2**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
diethyl ether	**98**	5	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
tetrahydrofuran (THF)	**2000**	50	ug/L	5	LMM		1002486	10/29/10	13:33	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
benzene	**27**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
toluene	**2**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
ethylbenzene	**17**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
m&p-xylenes	**71**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20253
Sample#: 20253-001
Sample ID: MW-206I
Matrix: Water
Sampled: 10/19/10 13:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**11**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
isopropylbenzene	**16**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,3,5-trimethylbenzene	**3**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2,4-trimethylbenzene	**7**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
4-isopropyltoluene	**3**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,4-dichlorobenzene	**2**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2-dichlorobenzene	**4**	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**95**	78-114	%	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
toluene-D8 SUR	**100**	88-110	%	1	LMM		1002486	11/2/10	9:19	SW5030B8260B
4-bromofluorobenzene SUR	**103**	86-115	%	1	LMM		1002486	11/2/10	9:19	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20253
Sample#: 20253-002
Sample ID: SB-4D
Matrix: Water
Sampled: 10/19/10 13:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
chloroethane	**9**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
diethyl ether	**160**	5	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
carbon disulfide	**4**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
tetrahydrofuran (THF)	**2100**	50	ug/L	5	LMM		1002486	10/29/10	14:06	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
benzene	**39**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
toluene	**12**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
ethylbenzene	**31**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
m&p-xylenes	**150**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20253
Sample#: 20253-002
Sample ID: SB-4D
Matrix: Water
Sampled: 10/19/10 13:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**36**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
isopropylbenzene	**30**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,3,5-trimethylbenzene	**6**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2,4-trimethylbenzene	**10**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
4-isopropyltoluene	**4**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,4-dichlorobenzene	**3**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2-dichlorobenzene	**3**	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
toluene-D8 SUR	**102**	88-110	%	1	LMM		1002486	11/2/10	9:52	SW5030B8260B
4-bromofluorobenzene SUR	**106**	86-115	%	1	LMM		1002486	11/2/10	9:52	SW5030B8260B

Note: The sample pH was greater than 2, indicating inadequate preservation.

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 20110
Date Received: 10/5/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 10/14/2010
Total number of pages: 6

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Job ID: 20110
Sample#: 20110-001
Sample ID: MW-206I
Matrix: Water
Sampled: 10/5/10 9:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
diethyl ether	**95**	5	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
tetrahydrofuran (THF)	**1400**	50	ug/L	5	LMM		1002290	10/8/10	23:43	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
benzene	**28**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
toluene	**2**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
ethylbenzene	**22**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
m&p-xylenes	**71**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20110
Sample#: 20110-001
Sample ID: MW-206I
Matrix: Water
Sampled: 10/5/10 9:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**13**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
isopropylbenzene	**17**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,3,5-trimethylbenzene	**4**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2,4-trimethylbenzene	**7**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
4-isopropyltoluene	**3**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,4-dichlorobenzene	**2**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2-dichlorobenzene	**4**	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**96**	78-114	%	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
toluene-D8 SUR	**100**	88-110	%	1	LMM		1002290	10/12/10	17:01	SW5030B8260B
4-bromofluorobenzene SUR	**95**	86-115	%	1	LMM		1002290	10/12/10	17:01	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20110
Sample#: 20110-002
Sample ID: SB-4D
Matrix: Water
Sampled: 10/5/10 9:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
chloroethane	**11**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
diethyl ether	**180**	5	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
tetrahydrofuran (THF)	**1500**	50	ug/L	5	LMM		1002290	10/9/10	0:13	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
benzene	**42**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
toluene	**9**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
ethylbenzene	**37**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
m&p-xylenes	**130**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20110
Sample#: 20110-002
Sample ID: SB-4D
Matrix: Water
Sampled: 10/5/10 9:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**38**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
isopropylbenzene	**31**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,3,5-trimethylbenzene	**8**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2,4-trimethylbenzene	**10**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
4-isopropyltoluene	**4**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,4-dichlorobenzene	**4**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2-dichlorobenzene	**3**	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**97**	78-114	%	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
toluene-D8 SUR	**101**	88-110	%	1	LMM		1002290	10/12/10	17:32	SW5030B8260B
4-bromofluorobenzene SUR	**96**	86-115	%	1	LMM		1002290	10/12/10	17:32	SW5030B8260B

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 20363
Date Received: 11/4/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 11/11/2010
Total number of pages: 4

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Job ID: 20363
Sample#: 20363-001
Sample ID: MW-206I
Matrix: Water
Sampled: 11/2/10 12:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
diethyl ether	**67**	5	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
tetrahydrofuran (THF)	**1700**	50	ug/L	5	LMM		1002549	11/9/10	22:55	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
benzene	**27**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
toluene	**2**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
ethylbenzene	**17**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
m&p-xylenes	**67**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20363
Sample#: 20363-001
Sample ID: MW-206I
Matrix: Water
Sampled: 11/2/10 12:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**11**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
isopropylbenzene	**15**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,3,5-trimethylbenzene	**3**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2,4-trimethylbenzene	**6**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
4-isopropyltoluene	**3**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2-dichlorobenzene	**4**	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**100**	78-114	%	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
toluene-D8 SUR	**108**	88-110	%	1	LMM		1002549	11/9/10	22:20	SW5030B8260B
4-bromofluorobenzene SUR	**105**	86-115	%	1	LMM		1002549	11/9/10	22:20	SW5030B8260B

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 19846
Date Received: 8/24/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

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We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 8/31/2010
Total number of pages: 6

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Job ID: 19846
Sample#: 19846-001
Sample ID: MW-206I
Matrix: Water
Sampled: 8/24/10 9:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
chloroethane	**2**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
diethyl ether	**110**	5	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
tetrahydrofuran (THF)	**1700**	50	ug/L	5	LMM		1001903	8/26/10	18:45	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
benzene	**33**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
toluene	**3**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
ethylbenzene	**25**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
m&p-xylenes	**74**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 19846
Sample#: 19846-001
Sample ID: MW-206I
Matrix: Water
Sampled: 8/24/10 9:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**16**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
isopropylbenzene	**17**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,3,5-trimethylbenzene	**4**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2,4-trimethylbenzene	**7**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
4-isopropyltoluene	**4**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,4-dichlorobenzene	**2**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2-dichlorobenzene	**4**	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	97	78-114	%	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
toluene-D8 SUR	101	88-110	%	1	LMM		1001903	8/26/10	17:42	SW5030B8260B
4-bromofluorobenzene SUR	99	86-115	%	1	LMM		1001903	8/26/10	17:42	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 19846
Sample#: 19846-002
Sample ID: SB-4D
Matrix: Water
Sampled: 8/24/10 9:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
chloroethane	**9**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
diethyl ether	**180**	5	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
tetrahydrofuran (THF)	**1400**	50	ug/L	5	LMM		1001903	8/26/10	19:16	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
benzene	**42**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
toluene	**18**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
chlorobenzene	**3**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
ethylbenzene	**37**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
m&p-xylenes	**150**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 19846
Sample#: 19846-002
Sample ID: SB-4D
Matrix: Water
Sampled: 8/24/10 9:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**38**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
isopropylbenzene	**33**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,3,5-trimethylbenzene	**6**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2,4-trimethylbenzene	**10**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
4-isopropyltoluene	**5**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,4-dichlorobenzene	**3**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2-dichlorobenzene	**3**	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
toluene-D8 SUR	102	88-110	%	1	LMM		1001903	8/26/10	18:13	SW5030B8260B
4-bromofluorobenzene SUR	96	86-115	%	1	LMM		1001903	8/26/10	18:13	SW5030B8260B

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 20039
Date Received: 9/23/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 10/6/2010
Total number of pages: 6

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Job ID: 20039
Sample#: 20039-001
Sample ID: MW-206I
Matrix: Water
Sampled: 9/21/10 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
diethyl ether	**93**	5	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
tetrahydrofuran (THF)	**1400**	50	ug/L	5	LMM		1002190	9/30/10	12:57	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
benzene	**28**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
toluene	**2**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
ethylbenzene	**23**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
m&p-xylenes	**63**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20039
Sample#: 20039-001
Sample ID: MW-206I
Matrix: Water
Sampled: 9/21/10 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**15**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
isopropylbenzene	**17**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,3,5-trimethylbenzene	**4**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2,4-trimethylbenzene	**8**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
4-isopropyltoluene	**3**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,4-dichlorobenzene	**2**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2-dichlorobenzene	**5**	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
toluene-D8 SUR	98	88-110	%	1	LMM		1002190	9/30/10	11:55	SW5030B8260B
4-bromofluorobenzene SUR	92	86-115	%	1	LMM		1002190	9/30/10	11:55	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20039
Sample#: 20039-002
Sample ID: SB-4D
Matrix: Water
Sampled: 9/21/10 13:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
chloroethane	**9**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
diethyl ether	**150**	5	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
tetrahydrofuran (THF)	**1300**	50	ug/L	5	LMM		1002190	9/30/10	13:29	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
benzene	**39**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
toluene	**12**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
ethylbenzene	**31**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
m&p-xylenes	**130**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 20039
Sample#: 20039-002
Sample ID: SB-4D
Matrix: Water
Sampled: 9/21/10 13:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**33**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
isopropylbenzene	**27**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,3,5-trimethylbenzene	**7**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2,4-trimethylbenzene	**10**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
4-isopropyltoluene	**3**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,4-dichlorobenzene	**3**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2-dichlorobenzene	**3**	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	95	78-114	%	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
toluene-D8 SUR	99	88-110	%	1	LMM		1002190	9/30/10	12:26	SW5030B8260B
4-bromofluorobenzene SUR	93	86-115	%	1	LMM		1002190	9/30/10	12:26	SW5030B8260B

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Christene Binger
GeoInsight, Inc.
One Monarch Drive
Suite 201
Littleton, MA 01460

PO Number: None
Job ID: 19938
Date Received: 9/8/10

Project: Dover Landfill 2009-009

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 9/20/2010
Total number of pages: 6

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 2009-009
Job ID: 19938
Sample#: 19938-001
Sample ID: MW-206I
Matrix: Water
Sampled: 9/7/10 12:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
diethyl ether	**85**	5	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
acetone	**65**	50	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
2-butanone (MEK)	**130**	10	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
tetrahydrofuran (THF)	**1400**	50	ug/L	5	LMM		1002052	9/15/10	15:07	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
benzene	**24**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
chlorobenzene	**3**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
ethylbenzene	**20**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
m&p-xylenes	**52**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 19938
Sample#: 19938-001
Sample ID: MW-206I
Matrix: Water
Sampled: 9/7/10 12:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**13**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
isopropylbenzene	**14**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,3,5-trimethylbenzene	**4**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2,4-trimethylbenzene	**6**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
4-isopropyltoluene	**2**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2-dichlorobenzene	**4**	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	91	78-114	%	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
toluene-D8 SUR	100	88-110	%	1	LMM		1002052	9/15/10	13:03	SW5030B8260B
4-bromofluorobenzene SUR	100	86-115	%	1	LMM		1002052	9/15/10	13:03	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 19938
Sample#: 19938-002
Sample ID: SB-4D
Matrix: Water
Sampled: 9/7/10 12:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
chloroethane	**7**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
diethyl ether	**140**	5	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
vinyl acetate	< 10	10	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
tetrahydrofuran (THF)	**1200**	50	ug/L	5	LMM		1002052	9/15/10	15:38	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
benzene	**35**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
toluene	**15**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
chlorobenzene	**4**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
ethylbenzene	**32**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
m&p-xylenes	**140**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B

Project ID: Dover Landfill 2009-009
Job ID: 19938
Sample#: 19938-002
Sample ID: SB-4D
Matrix: Water
Sampled: 9/7/10 12:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
o-xylene	**33**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
isopropylbenzene	**31**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,3,5-trimethylbenzene	**6**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2,4-trimethylbenzene	**10**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
4-isopropyltoluene	**4**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,4-dichlorobenzene	**3**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2-dichlorobenzene	**3**	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	88	78-114	%	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
toluene-D8 SUR	101	88-110	%	1	LMM		1002052	9/15/10	13:34	SW5030B8260B
4-bromofluorobenzene SUR	98	86-115	%	1	LMM		1002052	9/15/10	13:34	SW5030B8260B

PERFORMANCE MONITORING

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 24-SEP-2010 18:44
Report Date: 11/29/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-3DL
Client ID: SB-B2
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	8	4.0	2	8	1.0
74-87-3	Chloromethane	U	8	4.0	2	8	1
75-01-4	Vinyl chloride	U	8	4.0	2	8	1
74-83-9	Bromomethane	U	8	4.0	2	8	2
75-00-3	Chloroethane	U	8	4.0	2	8	2
75-69-4	Trichlorofluoromethane	U	8	4.0	2	8	1.0
75-35-4	1,1-Dichloroethene	U	4	4.0	1	4	1
75-15-0	Carbon Disulfide	U	4	4.0	1	4	1
75-09-2	Methylene Chloride	U	20	4.0	5	20	4
67-64-1	Acetone	U	20	4.0	5	20	9
156-60-5	trans-1,2-Dichloroethene	U	4	4.0	1	4	1
1634-04-4	Methyl tert-butyl ether	U	4	4.0	1	4	1
75-34-3	1,1-Dichloroethane	U	4	4.0	1	4	0.8
108-05-4	Vinyl Acetate	U	4	4.0	1	4	2
156-59-2	cis-1,2-Dichloroethene	U	4	4.0	1	4	0.8
540-59-0	1,2-Dichloroethylene (total)	U	8	4.0	2	8	0.8
67-66-3	Chloroform	U	4	4.0	1	4	1
56-23-5	Carbon Tetrachloride	U	4	4.0	1	4	0.9
109-99-9	Tetrahydrofuran		1600	4.0	5	20	7
71-55-6	1,1,1-Trichloroethane	U	4	4.0	1	4	0.8
78-93-3	2-Butanone	U	20	4.0	5	20	5
71-43-2	Benzene		26	4.0	1	4	1
107-06-2	1,2-Dichloroethane	U	4	4.0	1	4	0.8
79-01-6	Trichloroethene	U	4	4.0	1	4	1
78-87-5	1,2-Dichloropropane	U	4	4.0	1	4	1
75-27-4	Bromodichloromethane	U	4	4.0	1	4	1
10061-01-5	cis-1,3-dichloropropene	U	4	4.0	1	4	0.8
108-88-3	Toluene	J	2	4.0	1	4	1
108-10-1	4-methyl-2-pentanone	U	20	4.0	5	20	5
127-18-4	Tetrachloroethene	U	4	4.0	1	4	2
10061-02-6	trans-1,3-Dichloropropene	U	4	4.0	1	4	0.8
79-00-5	1,1,2-Trichloroethane	U	4	4.0	1	4	1
124-48-1	Dibromochloromethane	U	4	4.0	1	4	1
106-93-4	1,2-Dibromoethane	U	4	4.0	1	4	0.9
591-78-6	2-Hexanone	U	20	4.0	5	20	7
108-90-7	Chlorobenzene	U	4	4.0	1	4	0.9
100-41-4	Ethylbenzene		18	4.0	1	4	0.8
1330-20-7	Xylenes (total)		70	4.0	3	12	1
	m+p-Xylenes		49	4.0	2	8	2
95-47-6	o-Xylene		21	4.0	1	4	1
100-42-5	Styrene	U	4	4.0	1	4	0.9
75-25-2	Bromoform	U	4	4.0	1	4	0.9
79-34-5	1,1,2,2-Tetrachloroethane	U	4	4.0	1	4	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 24-SEP-2010 18:44
Report Date: 11/29/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-3DL
Client ID: SB-B2
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		8	4.0	1	4	0.8
95-63-6	1,2,4-Trimethylbenzene		25	4.0	1	4	0.8
541-73-1	1,3-Dichlorobenzene	U	4	4.0	1	4	1
106-46-7	1,4-Dichlorobenzene	U	4	4.0	1	4	1.0
95-50-1	1,2-Dichlorobenzene	J	3	4.0	1	4	0.6
1868-53-7	Dibromofluoromethane		108%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		101%				

Data File: \\target_server\GG\chem\gcms-f.i\F092410.b\F1435.D
Report Date: 29-Nov-2010 11:21

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-f.i\F092410.b\F1435.D
Lab Smp Id: SD5805-3DL Client Smp ID: SB-B2
Inj Date : 24-SEP-2010 18:44 MS Autotune Date: 31-AUG-2010 13:54
Operator : TTC Inst ID: gcms-f.i
Smp Info : SD5805-3DL
Misc Info : SW846 8260B
Comment :
Method : \\target_server\GG\chem\gcms-f.i\F092410.b\F826a61.m
Meth Date : 30-Sep-2010 14:04 dpaul Quant Type: ISTD
Cal Date : 13-SEP-2010 12:31 Cal File: F1250.D
Als bottle: 19
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: GEOA8260.sub
Target Version: 4.12
Processing Host: V200T1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
36 Tetrahydrofuran	42	9.219	9.209	(0.924)	214077	390.576	1560	
41 Benzene	78	9.811	9.800	(0.924)	51926	6.47851	25.9	
57 Toluene	92	12.281	12.271	(1.156)	2868	0.60752	2.4(a)	
68 Ethylbenzene	106	14.218	14.208	(1.003)	11667	4.56845	18.3	
M 70 Xylenes (total)	106				55470	17.5364	70.1	
71 m+p-Xylenes	106	14.404	14.394	(1.016)	39365	12.2519	49.0	
72 o-Xylene	106	14.972	14.962	(1.056)	16105	5.28451	21.1	
82 1,3,5-Trimethylbenzene	105	16.213	16.203	(0.935)	10943	1.91026	7.6	
88 1,2,4-Trimethylbenzene	105	16.759	16.748	(0.967)	36565	6.28905	25.2	
95 1,2-Dichlorobenzene	146	17.976	17.966	(1.037)	2268	0.74313	3.0(a)	
$ 37 Dibromofluoromethane	113	9.254	9.244	(0.928)	106863	54.2417	54.2	
$ 45 1,2-Dichloroethane-D4	65	10.008	9.998	(1.003)	117654	57.8852	57.9	
$ 55 Toluene-D8	98	12.212	12.201	(1.150)	302510	49.4291	49.4	
$ 76 P-Bromofluorobenzene	95	15.773	15.762	(1.485)	116637	50.3600	50.4	
* 42 Pentafluorobenzene	168	9.973	9.963	(1.000)	184156	50.0000		
* 49 1,4-Difluorobenzene	114	10.623	10.612	(1.000)	321908	50.0000		
* 66 Chlorobenzene-D5	117	14.172	14.162	(1.000)	267169	50.0000		
* 91 1,4-Dichlorobenzene-D4	152	17.339	17.340	(1.000)	116325	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\GG\chem\gcms-f.i\F092410.b\F1435.D
Report Date: 29-Nov-2010 11:21

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-f.i
Lab File ID: F1435.D
Lab Smp Id: SD5805-3DL
Analysis Type: VOA
Quant Type: ISTD
Operator: TTC
Method File: \\target_server\GG\chem\gcms-f.i\F092410.b\F826a61.m
Misc Info: SW846 8260B

Calibration Date: 24-SEP-2010
Calibration Time: 08:56
Client Smp ID: SB-B2
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

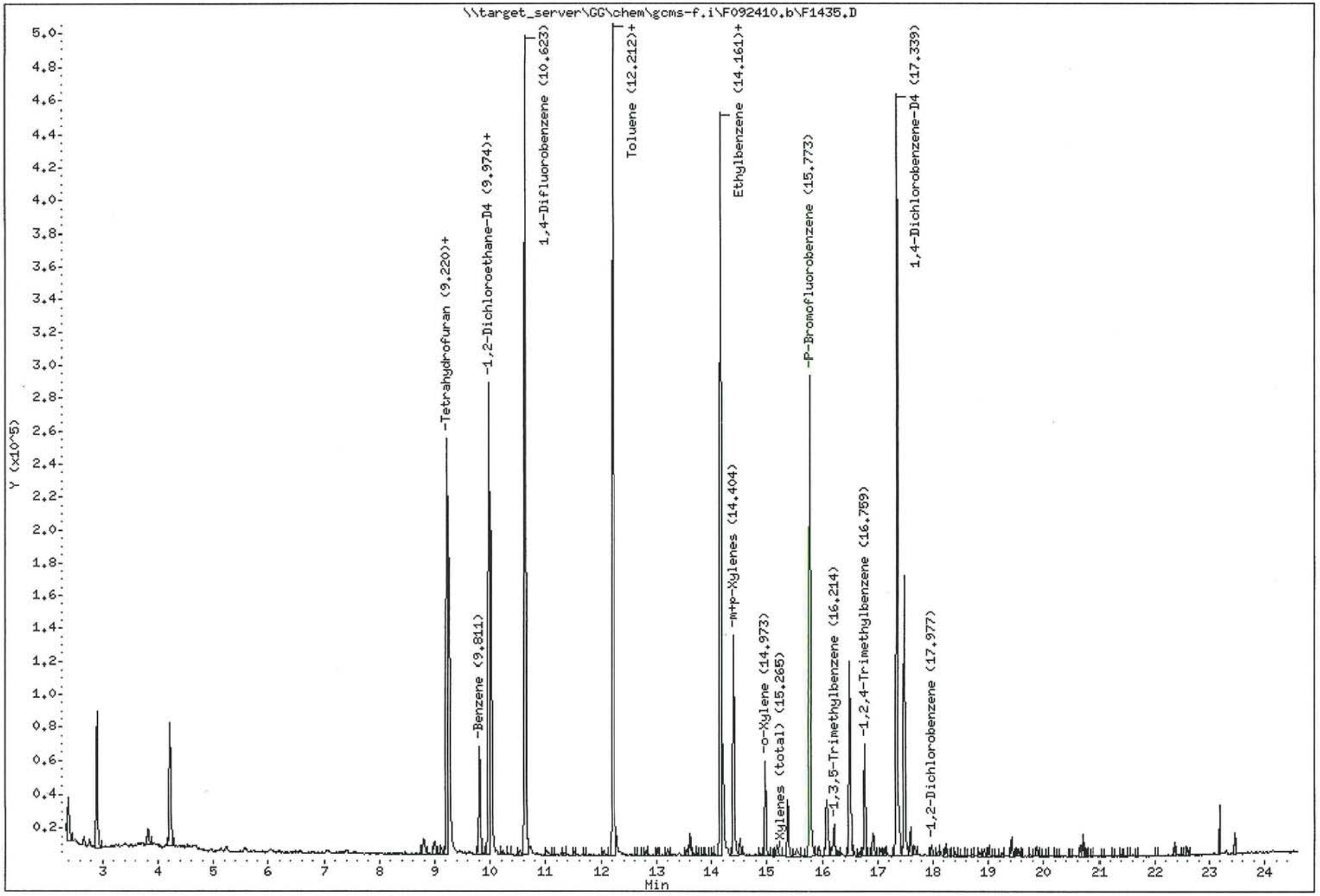
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 Pentafluorobenzen	182714	91357	365428	184156	0.79
49 1,4-Difluorobenze	303797	151899	607594	321908	5.96
66 Chlorobenzene-D5	253513	126757	507026	267169	5.39
91 1,4-Dichlorobenze	117220	58610	234440	116325	-0.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 Pentafluorobenzen	9.96	9.46	10.46	9.97	0.11
49 1,4-Difluorobenze	10.61	10.11	11.11	10.62	0.10
66 Chlorobenzene-D5	14.16	13.66	14.66	14.17	0.08
91 1,4-Dichlorobenze	17.34	16.84	17.84	17.34	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\target_server\GG\chem\gcms-f.i\F092410.b\F1435.D
Date : 24-SEP-2010 18:44
Client ID: SB-B2
Sample Info: SD5805-3DL

Instrument: gcms-f.i



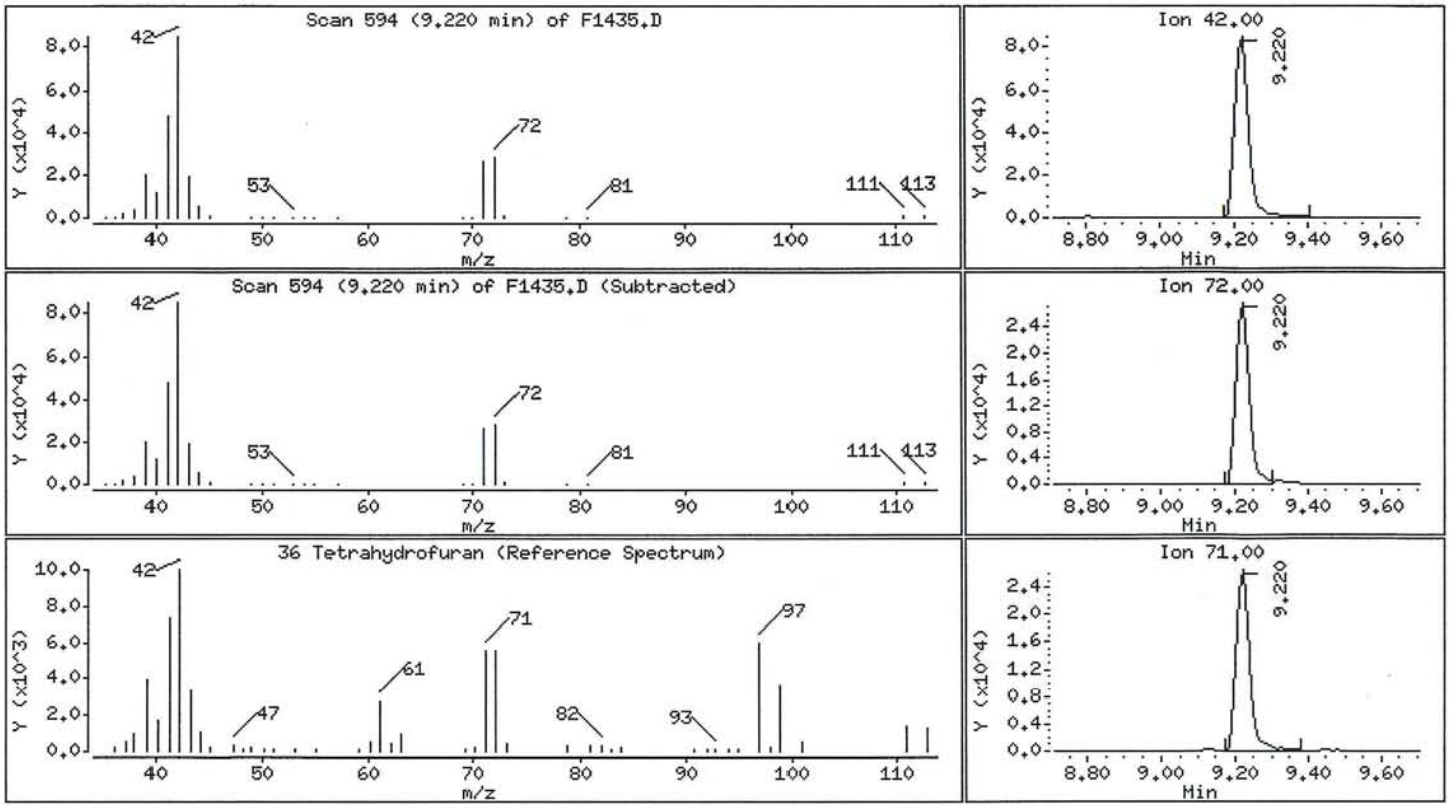
Data File: \\target_server\GC\chem\gcms-f.i\F092410.b\F1435.D

Date : 24-SEP-2010 18:44

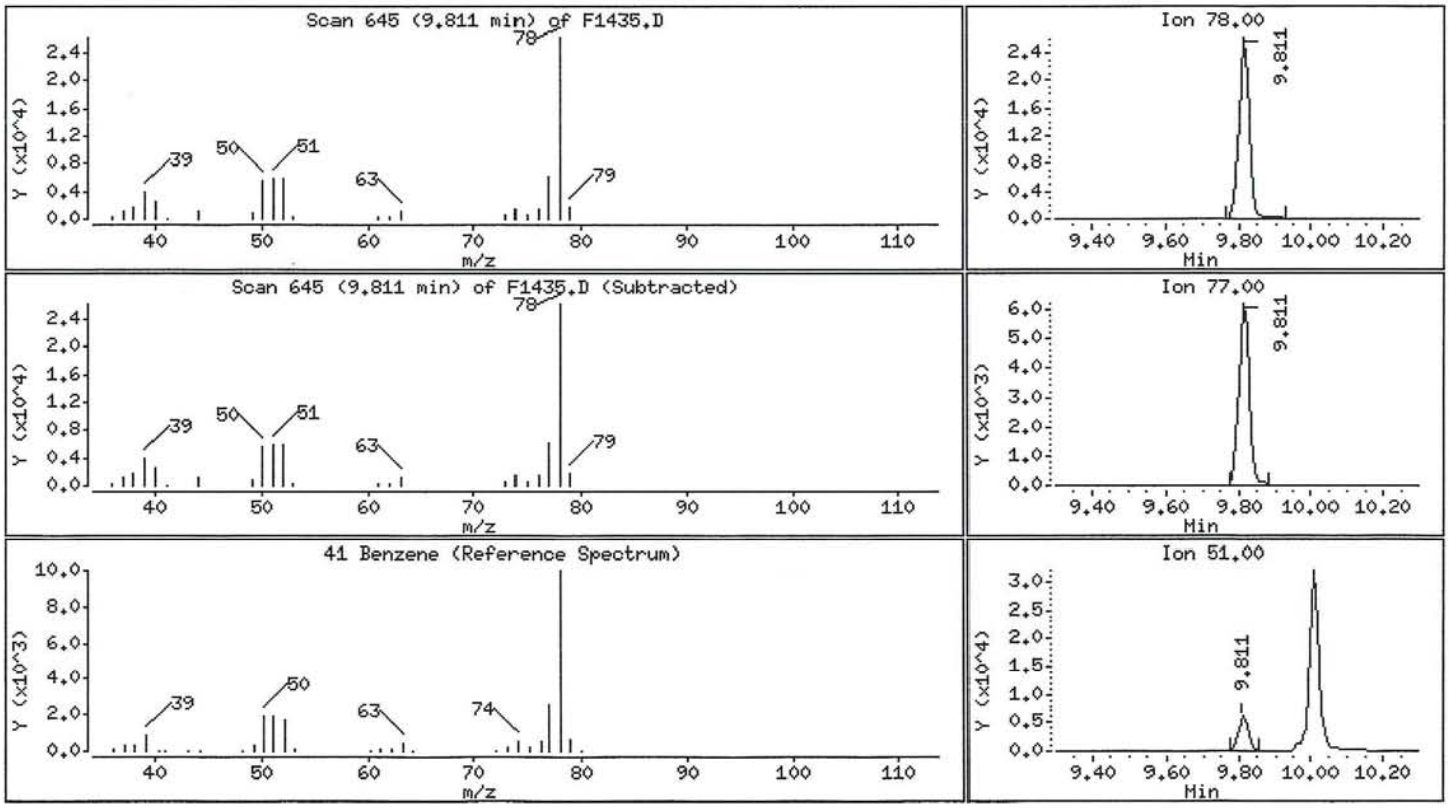
Client ID: SB-B2 Instrument: gcms-f.i

Sample Info: SD5805-3DL

36 Tetrahydrofuran Concentration: 1560 ug/l



41 Benzene Concentration: 25.9 ug/l



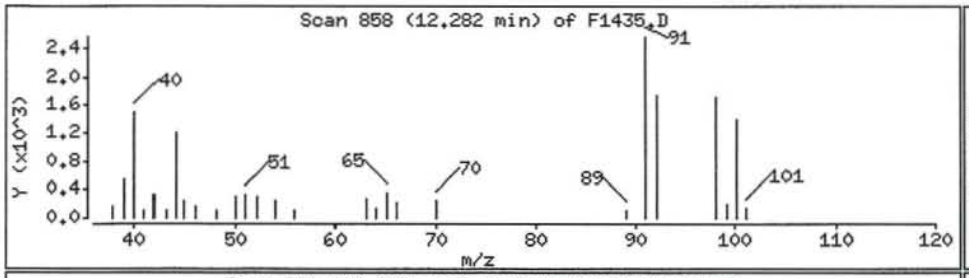
Data File: \\target_server\GC\chem\gcms-f.i\F092410.b\F1435.D

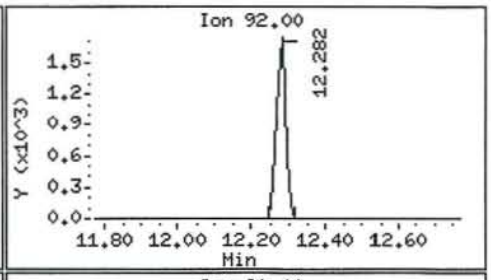
Date : 24-SEP-2010 18:44

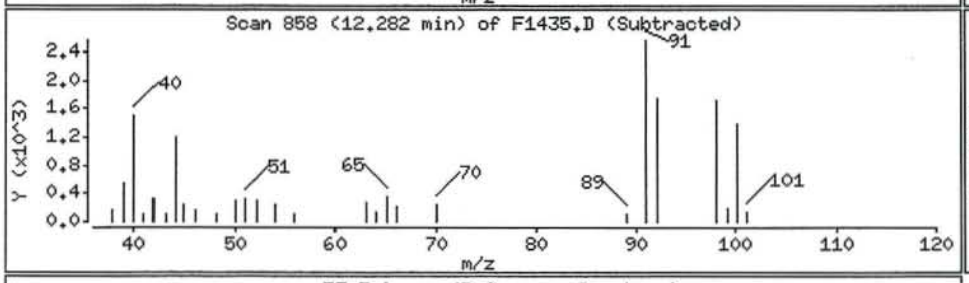
Client ID: SB-B2 Instrument: gcms-f.i

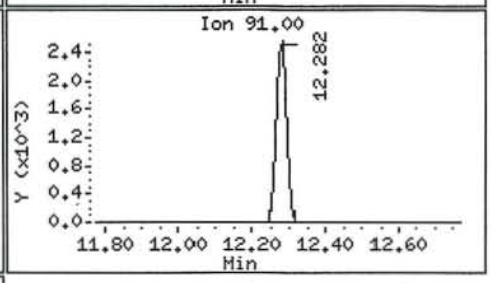
Sample Info: SD5805-3DL

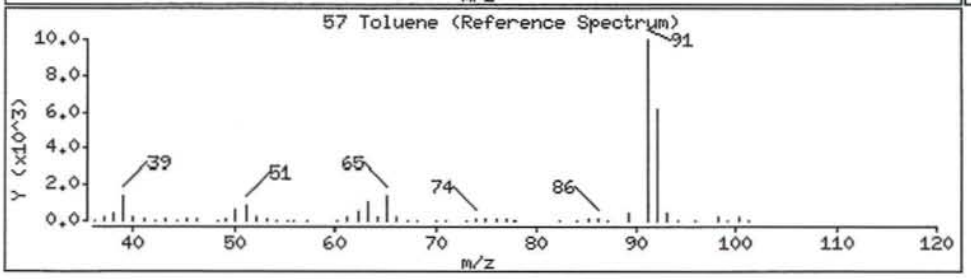
57 Toluene Concentration: 2.4 ug/l



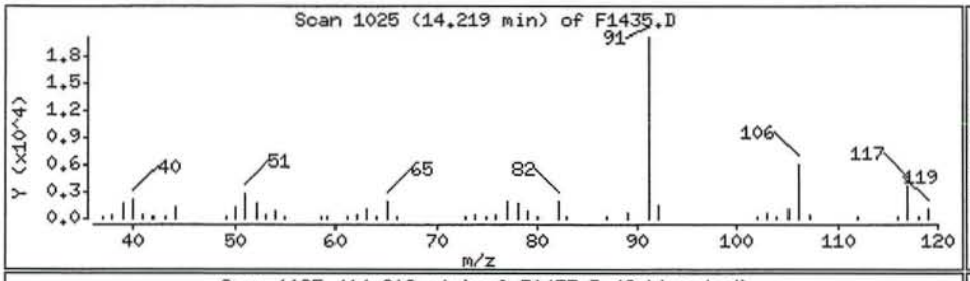


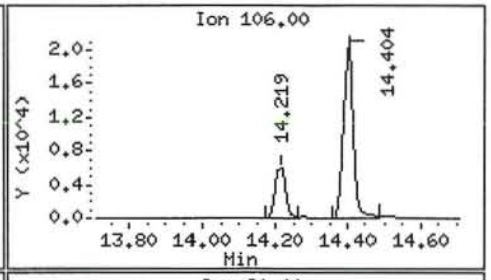


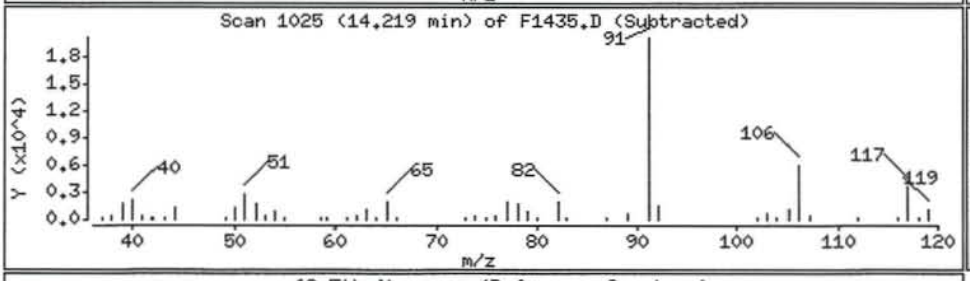


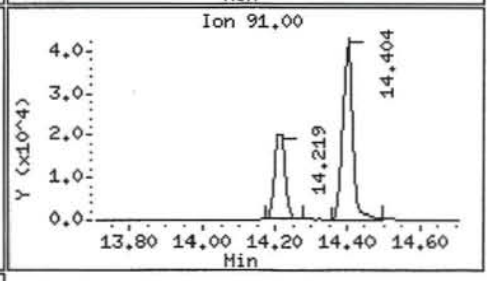


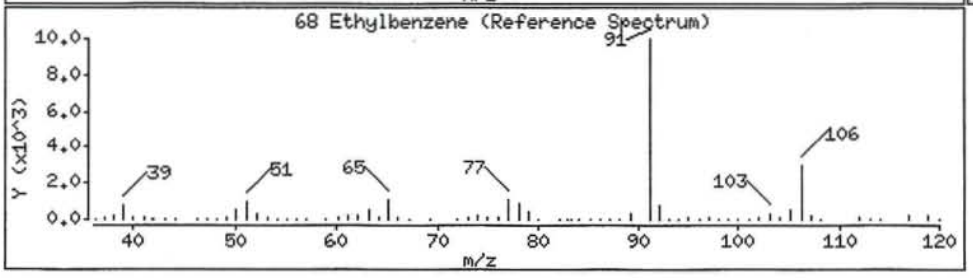
68 Ethylbenzene Concentration: 18.3 ug/l











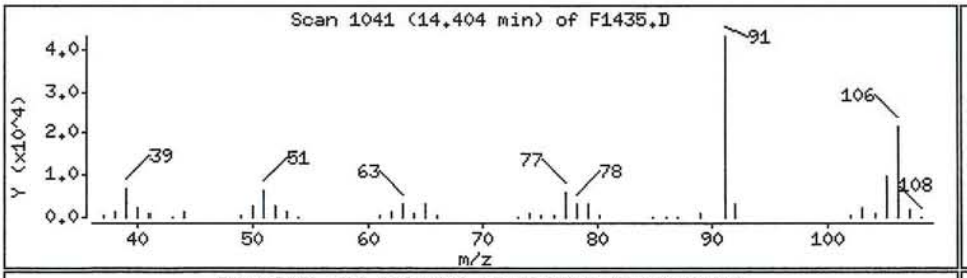
Data File: \\target_server\GC\chem\gcms-f.i\F092410.b\F1435.D

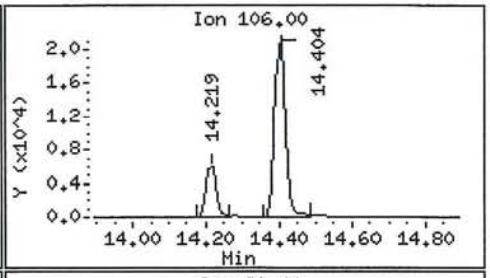
Date : 24-SEP-2010 18:44

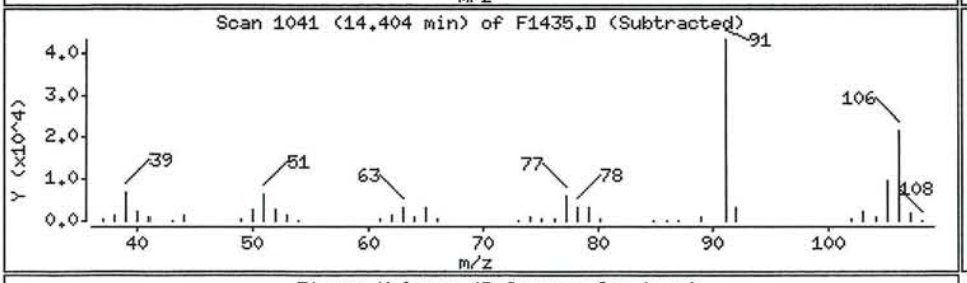
Client ID: SB-B2 Instrument: gcms-f.i

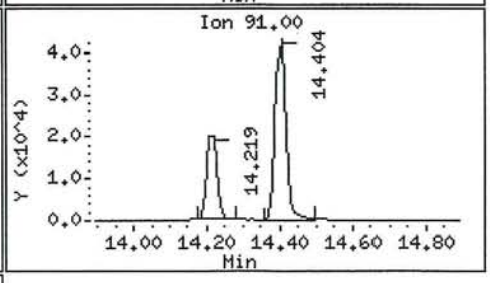
Sample Info: SD5805-3DL

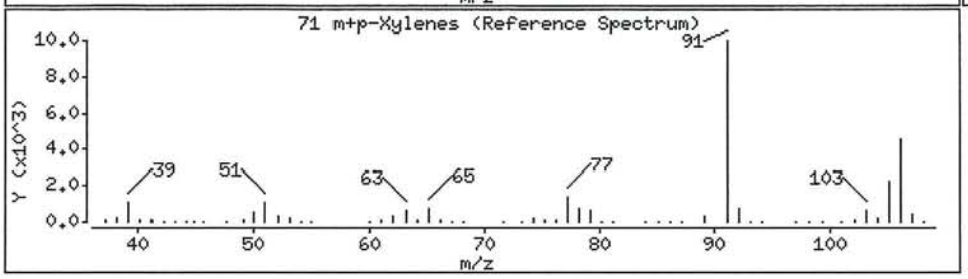
71 m+p-Xylenes Concentration: 49.0 ug/l



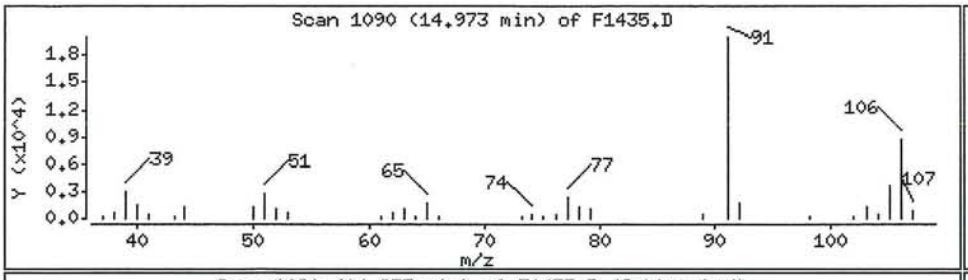


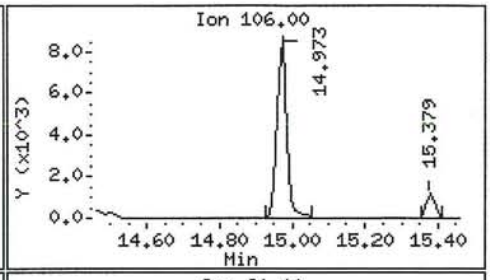


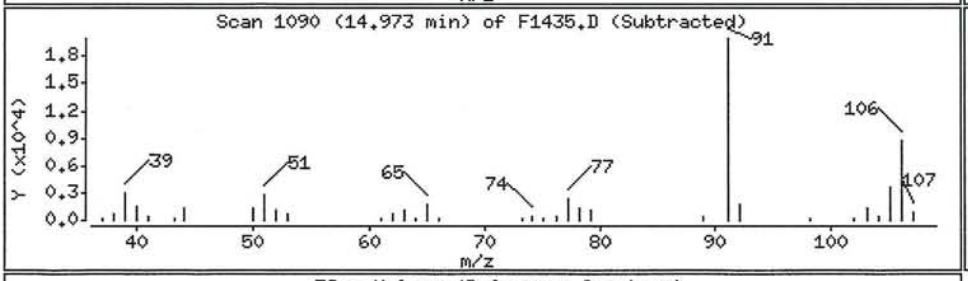


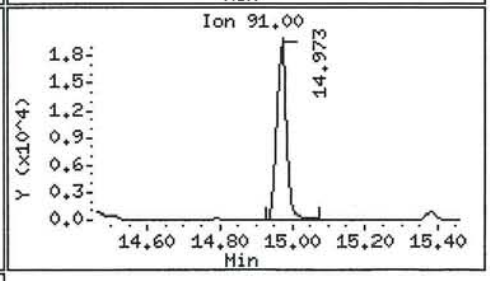


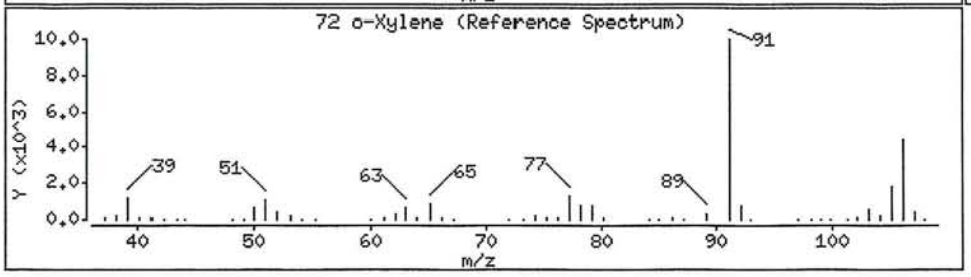
72 o-Xylene Concentration: 21.1 ug/l











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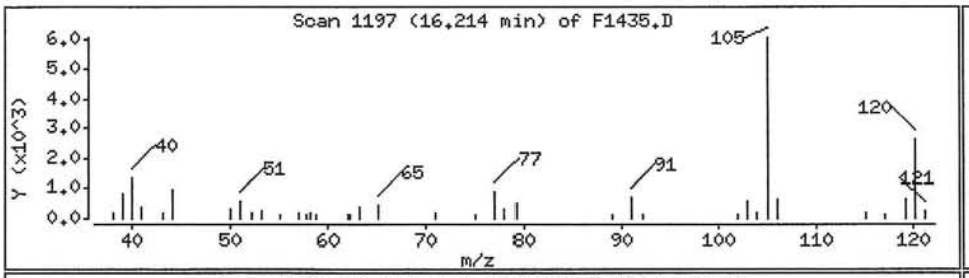
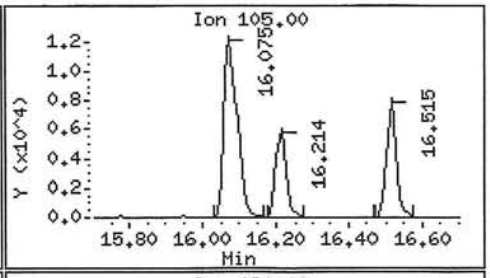
Date : 24-SEP-2010 18:44

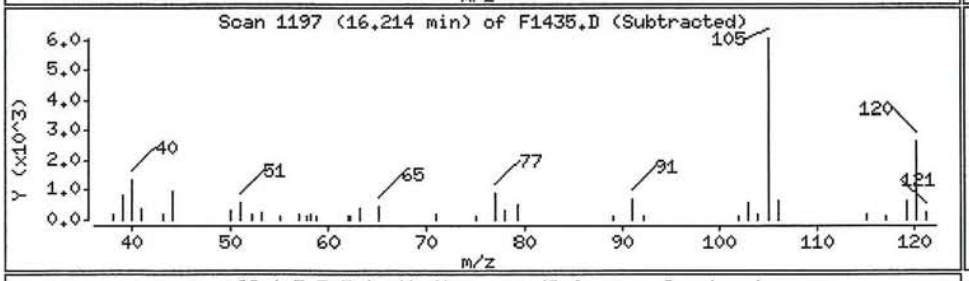
Client ID: SB-B2 Instrument: gcms-f.i

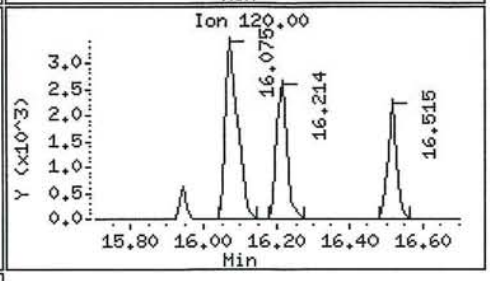
Sample Info: SD5805-3DL

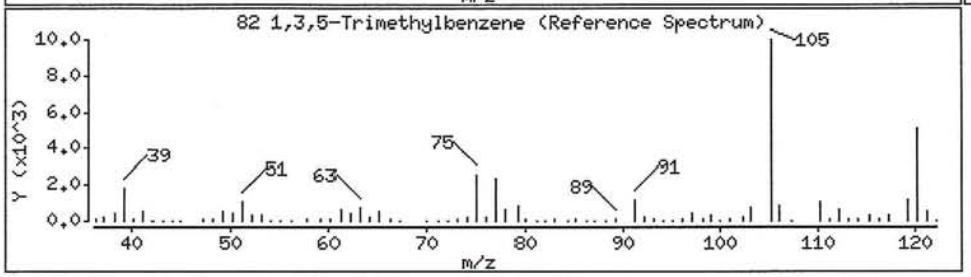
82 1,3,5-Trimethylbenzene Concentration: 7.6 ug/l



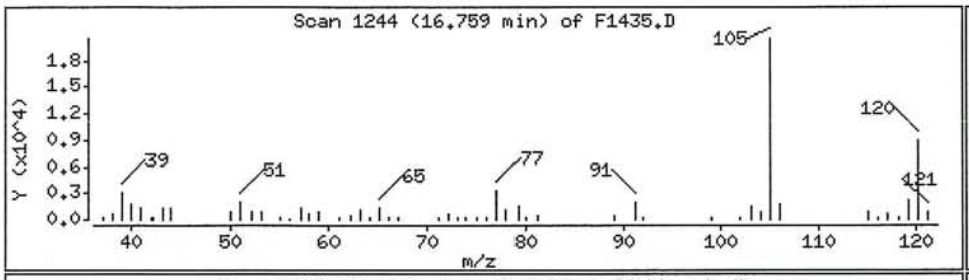


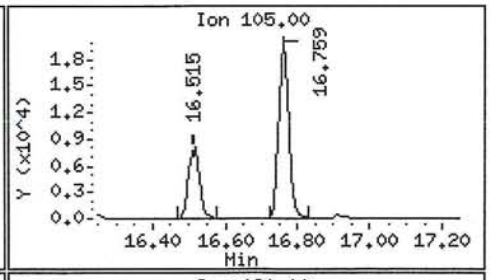


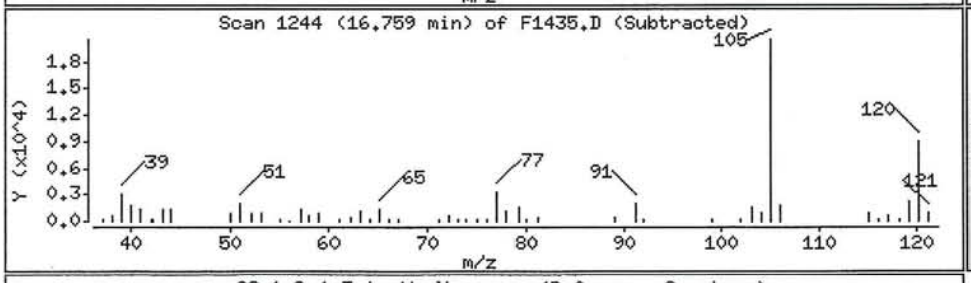


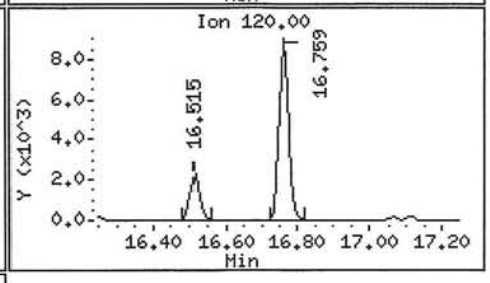


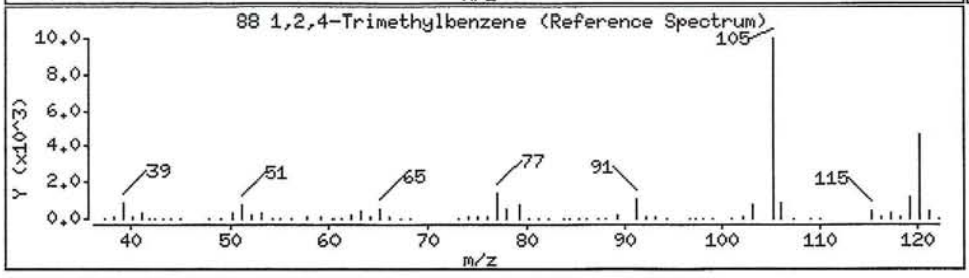
88 1,2,4-Trimethylbenzene Concentration: 25.2 ug/l











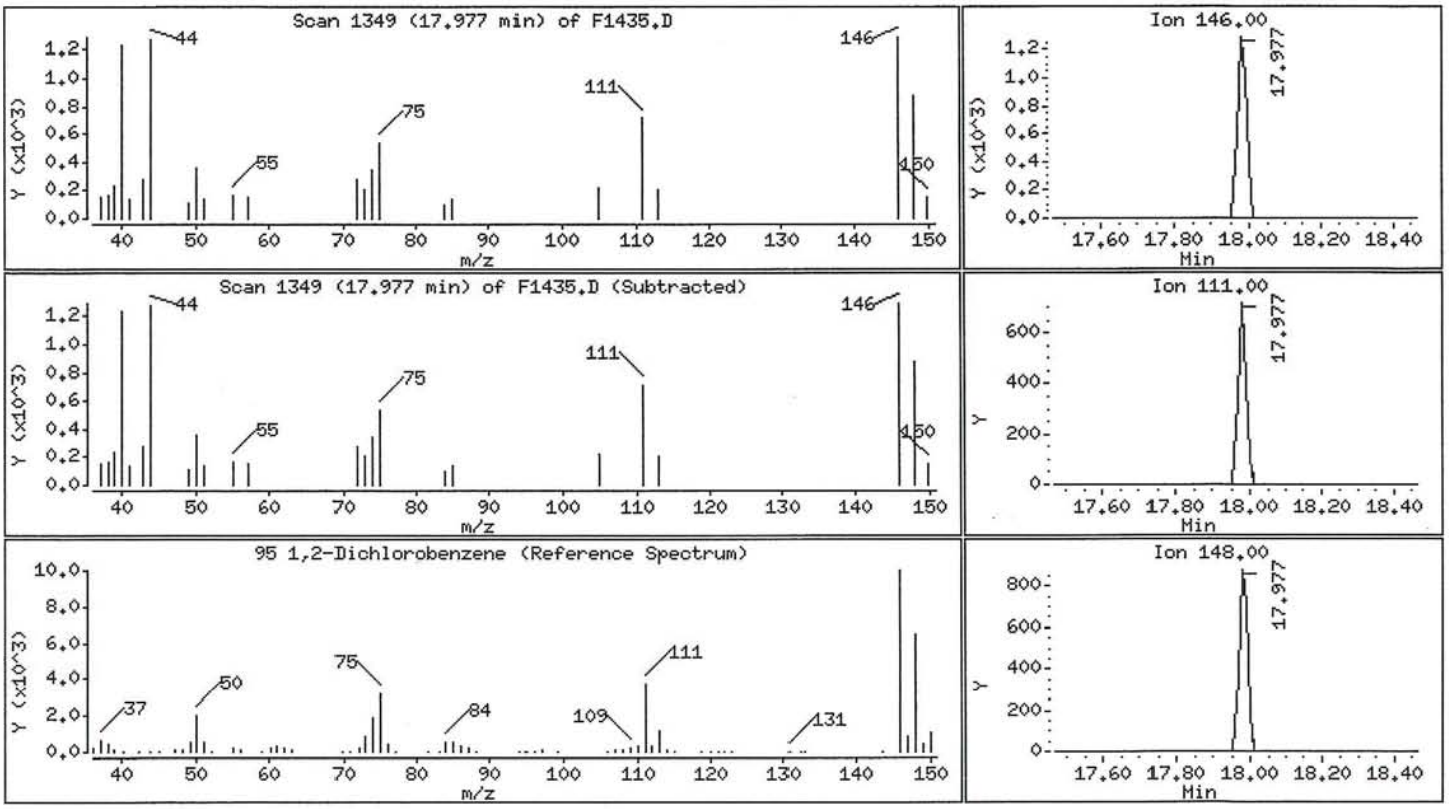
Data File: \\target_server\GG\chem\gcms-f.i\F092410.b\F1435.D

Date : 24-SEP-2010 18:44

Client ID: SB-B2 Instrument: gcms-f.i

Sample Info: SD5805-3DL

95 1,2-Dichlorobenzene Concentration: 3.0 ug/l



Katahdin
ANALYTICAL SERVICES

nelac
Cert. No. E87604

December 20, 2010

Ms. Kristen Zeman
Geo Insight, Inc.
1 Monarch Drive
Suite 201
Littleton, MA 01460

RE:	Katahdin Lab Number:	SDG: GEO-17 (SD7664)
	Project ID:	Dover Landfill
	Project Manager:	Ms. Shelly Brown
	Sample Receipt Date(s):	December 9, 2010

Dear Ms. Zeman:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert.html for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Deborah J. Nadeau
Authorized Signature

12/20/2010
Date

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
GEO INSIGHT, INC.
DOVER LANDFILL
SDG: GEO-17
SD7664

Sample Receipt

The following samples were received on December 9, 2010 and were logged in under Katahdin Analytical Services work order number SD7664 for a hardcopy due date of December 23, 2010.

KATAHDIN Sample No.	GEO INSIGHT Sample Identification
SD7664-1	MW-200I
SD7664-2	MW-200I
SD7664-3	SB-B2
SD7664-4	SB-B2
SD7664-5	MW-208I
SD7664-6	MW-208I
SD7664-7	FIELD DUPLICATE
SD7664-8	FIELD DUPLICATE
SD7664-9	MW-207I
SD7664-10	MW-207I
SD7664-11	MW-209I
SD7664-12	MW-209I
SD7664-13	TRIP BLANK

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Shelly Brown**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG: GEO-17 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid

Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the laboratory SOP allowable number of exceedances. The LCS report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

Sample SD7664-9 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as requested by the client. The MS and MSD WG86316-3 and 4 had recoveries for the spiked analyte tetrahydrofuran that were non-calculable (NC) due to the concentration in the native sample being higher than in the MS and MSD. This is likely due to a non-homogeneous sample.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of SDG GEO-17 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Numbers SD7664-(1-12) were digested for ICP analysis on 12/10/10 (QC Batch AL10ICW0) in accordance with USEPA Method 3010A. Duplicate laboratory control samples were prepared in this batch. Katahdin Sample Number SD7664-9 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of SDG GEO-17 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010B. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

The measured recovery of arsenic in the matrix-spiked aliquots of Katahdin Sample Number SD7664-9 is within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added).

The matrix-spike duplicate analysis of Katahdin Sample Number SD7664-9 is within the laboratory's acceptance limit (<20% relative difference between matrix-spike duplicate aliquots) for arsenic.

The serial dilution analysis of Katahdin Sample Number SD7664-9 is within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the MDL) for arsenic.

Reporting of Metals Results

Analytical results for client samples and batch QC samples (preparation blanks and laboratory control samples) have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
12.20.10

Leslie Dimond
Quality Assurance Officer

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a greater rate for false negatives, i.e. greater than 1%, than those results reported as "U" PQL/LOQ or "U" LOD.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	Spiked sample recovery not within control limits.
*	Duplicate sample analysis not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a greater rate for false negatives, i.e. greater than 1%, than those results reported as "U" PQL/LOQ or "U" LOD.
J	The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ) (previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 14:04
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-1
Client ID: MW-200I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	1.0	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone		5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.3	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	J	1.0	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	1	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran		210	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		8	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.6	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		2	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	J	0.7	1.0	1	1	0.2
100-41-4	Ethylbenzene		7	1.0	1	1	0.2
1330-20-7	Xylenes (total)		9	1.0	3	3	0.2
	m+p-Xylenes		4	1.0	2	2	0.6
95-47-6	o-Xylene		5	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 14:04
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-1
Client ID: MW-200I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	0.6	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene		1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	J	0.3	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		110%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		104%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-200I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	19.0			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-200I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	19.9			P	1	8.0	1.86

Bottle ID: A

Comments:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 14:37
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-3
Client ID: SB-B2
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	J	2	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	3	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.6	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		2	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	J	0.9	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	E	1600	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		30	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.9	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		3	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene		3	1.0	1	1	0.2
100-41-4	Ethylbenzene		23	1.0	1	1	0.2
1330-20-7	Xylenes (total)		76	1.0	3	3	0.2
	m+p-Xylenes		47	1.0	2	2	0.6
95-47-6	o-Xylene		28	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 14:37
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-3
Client ID: SB-B2
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		3	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene		5	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene		2	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		4	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 18:09
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-3DL
Client ID: SB-B2
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	4	2.0	2	4	0.5
74-87-3	Chloromethane	U	4	2.0	2	4	0.7
75-01-4	Vinyl chloride	U	4	2.0	2	4	0.5
74-83-9	Bromomethane	U	4	2.0	2	4	1.0
75-00-3	Chloroethane	U	4	2.0	2	4	1
75-69-4	Trichlorofluoromethane	U	4	2.0	2	4	0.5
75-35-4	1,1-Dichloroethene	U	2	2.0	1	2	0.7
75-15-0	Carbon Disulfide	U	2	2.0	1	2	0.5
75-09-2	Methylene Chloride	J	3	2.0	5	10	2
67-64-1	Acetone		18	2.0	5	10	4
156-60-5	trans-1,2-Dichloroethene	J	0.6	2.0	1	2	0.5
1634-04-4	Methyl tert-butyl ether	J	1	2.0	1	2	0.7
75-34-3	1,1-Dichloroethane	J	2	2.0	1	2	0.4
108-05-4	Vinyl Acetate	U	2	2.0	1	2	0.8
156-59-2	cis-1,2-Dichloroethene	J	1.0	2.0	1	2	0.4
540-59-0	1,2-Dichloroethylene (total)	J	2	2.0	2	4	0.4
67-66-3	Chloroform	U	2	2.0	1	2	0.6
56-23-5	Carbon Tetrachloride	U	2	2.0	1	2	0.4
109-99-9	Tetrahydrofuran		1500	2.0	5	10	3
71-55-6	1,1,1-Trichloroethane	U	2	2.0	1	2	0.4
78-93-3	2-Butanone	U	10	2.0	5	10	3
71-43-2	Benzene		26	2.0	1	2	0.5
107-06-2	1,2-Dichloroethane	J	0.9	2.0	1	2	0.4
79-01-6	Trichloroethene	U	2	2.0	1	2	0.6
78-87-5	1,2-Dichloropropane	U	2	2.0	1	2	0.5
75-27-4	Bromodichloromethane	U	2	2.0	1	2	0.7
10061-01-5	cis-1,3-dichloropropene	U	2	2.0	1	2	0.4
108-88-3	Toluene		3	2.0	1	2	0.5
108-10-1	4-methyl-2-pentanone	J	5	2.0	5	10	3
127-18-4	Tetrachloroethene	U	2	2.0	1	2	0.8
10061-02-6	trans-1,3-Dichloropropene	U	2	2.0	1	2	0.4
79-00-5	1,1,2-Trichloroethane	U	2	2.0	1	2	0.7
124-48-1	Dibromochloromethane	U	2	2.0	1	2	0.6
106-93-4	1,2-Dibromoethane	U	2	2.0	1	2	0.4
591-78-6	2-Hexanone	U	10	2.0	5	10	3
108-90-7	Chlorobenzene		3	2.0	1	2	0.4
100-41-4	Ethylbenzene		22	2.0	1	2	0.4
1330-20-7	Xylenes (total)		73	2.0	3	6	0.5
	m+p-Xylenes		46	2.0	2	4	1
95-47-6	o-Xylene		27	2.0	1	2	0.5
100-42-5	Styrene	U	2	2.0	1	2	0.5
75-25-2	Bromoform	U	2	2.0	1	2	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	2	2.0	1	2	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 18:09
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-3DL
Client ID: SB-B2
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		3	2.0	1	2	0.4
95-63-6	1,2,4-Trimethylbenzene		5	2.0	1	2	0.4
541-73-1	1,3-Dichlorobenzene	U	2	2.0	1	2	0.5
106-46-7	1,4-Dichlorobenzene	U	2	2.0	1	2	0.5
95-50-1	1,2-Dichlorobenzene		4	2.0	1	2	0.3
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		105%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SB-B2

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	17.5			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SB-B2

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	17.9			P	1	8.0	1.86

Bottle ID: A

Comments:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 15:11
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-5
Client ID: MW-208I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	1	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane		3	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide		3	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	3	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene		1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	J	0.7	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		4	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		2	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)		3	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	E	1100	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		21	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane		2	1.0	1	1	0.2
79-01-6	Trichloroethene	J	0.4	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		3	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene		1	1.0	1	1	0.2
100-41-4	Ethylbenzene		9	1.0	1	1	0.2
1330-20-7	Xylenes (total)		5	1.0	3	3	0.2
	m+p-Xylenes		3	1.0	2	2	0.6
95-47-6	o-Xylene		2	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 15:11
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-5
Client ID: MW-208I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	1.0	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	J	0.4	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	J	0.6	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		2	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		112%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		103%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 18:42
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-5DL
Client ID: MW-208I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	4	2.0	2	4	0.5
74-87-3	Chloromethane	U	4	2.0	2	4	0.7
75-01-4	Vinyl chloride	U	4	2.0	2	4	0.5
74-83-9	Bromomethane	U	4	2.0	2	4	1.0
75-00-3	Chloroethane	U	4	2.0	2	4	1
75-69-4	Trichlorofluoromethane	U	4	2.0	2	4	0.5
75-35-4	1,1-Dichloroethene	U	2	2.0	1	2	0.7
75-15-0	Carbon Disulfide	U	2	2.0	1	2	0.5
75-09-2	Methylene Chloride	J	3	2.0	5	10	2
67-64-1	Acetone		14	2.0	5	10	4
156-60-5	trans-1,2-Dichloroethene	J	0.7	2.0	1	2	0.5
1634-04-4	Methyl tert-butyl ether	U	2	2.0	1	2	0.7
75-34-3	1,1-Dichloroethane		3	2.0	1	2	0.4
108-05-4	Vinyl Acetate	U	2	2.0	1	2	0.8
156-59-2	cis-1,2-Dichloroethene	J	2	2.0	1	2	0.4
540-59-0	1,2-Dichloroethylene (total)	J	2	2.0	2	4	0.4
67-66-3	Chloroform	U	2	2.0	1	2	0.6
56-23-5	Carbon Tetrachloride	U	2	2.0	1	2	0.4
109-99-9	Tetrahydrofuran		850	2.0	5	10	3
71-55-6	1,1,1-Trichloroethane	U	2	2.0	1	2	0.4
78-93-3	2-Butanone	U	10	2.0	5	10	3
71-43-2	Benzene		18	2.0	1	2	0.5
107-06-2	1,2-Dichloroethane	J	2	2.0	1	2	0.4
79-01-6	Trichloroethene	J	0.6	2.0	1	2	0.6
78-87-5	1,2-Dichloropropane	U	2	2.0	1	2	0.5
75-27-4	Bromodichloromethane	U	2	2.0	1	2	0.7
10061-01-5	cis-1,3-dichloropropene	U	2	2.0	1	2	0.4
108-88-3	Toluene		3	2.0	1	2	0.5
108-10-1	4-methyl-2-pentanone	U	10	2.0	5	10	3
127-18-4	Tetrachloroethene	U	2	2.0	1	2	0.8
10061-02-6	trans-1,3-Dichloropropene	U	2	2.0	1	2	0.4
79-00-5	1,1,2-Trichloroethane	U	2	2.0	1	2	0.7
124-48-1	Dibromochloromethane	U	2	2.0	1	2	0.6
106-93-4	1,2-Dibromoethane	U	2	2.0	1	2	0.4
591-78-6	2-Hexanone	U	10	2.0	5	10	3
108-90-7	Chlorobenzene	J	1	2.0	1	2	0.4
100-41-4	Ethylbenzene		7	2.0	1	2	0.4
1330-20-7	Xylenes (total)	J	4	2.0	3	6	0.5
	m+p-Xylenes	J	2	2.0	2	4	1
95-47-6	o-Xylene	J	2	2.0	1	2	0.5
100-42-5	Styrene	U	2	2.0	1	2	0.5
75-25-2	Bromoform	U	2	2.0	1	2	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	2	2.0	1	2	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 18:42
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-5DL
Client ID: MW-208I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	0.8	2.0	1	2	0.4
95-63-6	1,2,4-Trimethylbenzene	J	0.4	2.0	1	2	0.4
541-73-1	1,3-Dichlorobenzene	U	2	2.0	1	2	0.5
106-46-7	1,4-Dichlorobenzene	U	2	2.0	1	2	0.5
95-50-1	1,2-Dichlorobenzene		2	2.0	1	2	0.3
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		103%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-208I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	20.8			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-208I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	19.9			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 15:44
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-7
Client ID: FIELD DUPLICATE
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WGB6316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	J	1	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	3	1.0	5	5	1
67-64-1	Acetone		15	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.9	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	J	0.8	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		2	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	J	0.9	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	E	1900	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		32	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane		1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		4	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene		4	1.0	1	1	0.2
100-41-4	Ethylbenzene		25	1.0	1	1	0.2
1330-20-7	Xylenes (total)		81	1.0	3	3	0.2
	m+p-Xylenes		51	1.0	2	2	0.6
95-47-6	o-Xylene		31	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 15:44
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-7
Client ID: FIELD DUPLICATE
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		4	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene		6	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene		2	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		4	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		110%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 19:15
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-7DL
Client ID: FIELD DUPLICATE
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	4	2.0	2	4	0.5
74-87-3	Chloromethane	U	4	2.0	2	4	0.7
75-01-4	Vinyl chloride	U	4	2.0	2	4	0.5
74-83-9	Bromomethane	U	4	2.0	2	4	1.0
75-00-3	Chloroethane	U	4	2.0	2	4	1
75-69-4	Trichlorofluoromethane	U	4	2.0	2	4	0.5
75-35-4	1,1-Dichloroethene	U	2	2.0	1	2	0.7
75-15-0	Carbon Disulfide	U	2	2.0	1	2	0.5
75-09-2	Methylene Chloride	J	3	2.0	5	10	2
67-64-1	Acetone		14	2.0	5	10	4
156-60-5	trans-1,2-Dichloroethene	J	0.8	2.0	1	2	0.5
1634-04-4	Methyl tert-butyl ether	J	1	2.0	1	2	0.7
75-34-3	1,1-Dichloroethane	J	2	2.0	1	2	0.4
108-05-4	Vinyl Acetate	U	2	2.0	1	2	0.8
156-59-2	cis-1,2-Dichloroethene	J	0.9	2.0	1	2	0.4
540-59-0	1,2-Dichloroethylene (total)	J	2	2.0	2	4	0.4
67-66-3	Chloroform	U	2	2.0	1	2	0.6
56-23-5	Carbon Tetrachloride	U	2	2.0	1	2	0.4
109-99-9	Tetrahydrofuran		1500	2.0	5	10	3
71-55-6	1,1,1-Trichloroethane	U	2	2.0	1	2	0.4
78-93-3	2-Butanone	U	10	2.0	5	10	3
71-43-2	Benzene		26	2.0	1	2	0.5
107-06-2	1,2-Dichloroethane	U	2	2.0	1	2	0.4
79-01-6	Trichloroethene	U	2	2.0	1	2	0.6
78-87-5	1,2-Dichloropropane	U	2	2.0	1	2	0.5
75-27-4	Bromodichloromethane	U	2	2.0	1	2	0.7
10061-01-5	cis-1,3-dichloropropene	U	2	2.0	1	2	0.4
108-88-3	Toluene		3	2.0	1	2	0.5
108-10-1	4-methyl-2-pentanone	U	10	2.0	5	10	3
127-18-4	Tetrachloroethene	U	2	2.0	1	2	0.8
10061-02-6	trans-1,3-Dichloropropene	U	2	2.0	1	2	0.4
79-00-5	1,1,2-Trichloroethane	U	2	2.0	1	2	0.7
124-48-1	Dibromochloromethane	U	2	2.0	1	2	0.6
106-93-4	1,2-Dibromoethane	U	2	2.0	1	2	0.4
591-78-6	2-Hexanone	U	10	2.0	5	10	3
108-90-7	Chlorobenzene		3	2.0	1	2	0.4
100-41-4	Ethylbenzene		24	2.0	1	2	0.4
1330-20-7	Xylenes (total)		76	2.0	3	6	0.5
	m+p-Xylenes		47	2.0	2	4	1
95-47-6	o-Xylene		29	2.0	1	2	0.5
100-42-5	Styrene	U	2	2.0	1	2	0.5
75-25-2	Bromoform	U	2	2.0	1	2	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	2	2.0	1	2	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 19:15
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-7DL
Client ID: FIELD DUPLICATE
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		3	2.0	1	2	0.4
95-63-6	1,2,4-Trimethylbenzene		5	2.0	1	2	0.4
541-73-1	1,3-Dichlorobenzene	U	2	2.0	1	2	0.5
106-46-7	1,4-Dichlorobenzene	U	2	2.0	1	2	0.5
95-50-1	1,2-Dichlorobenzene		4	2.0	1	2	0.3
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		102%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FIELD DUPLICATE

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	18.2			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FIELD DUPLICATE

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	19.3			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 16:17
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-9
Client ID: MW-207I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	J	0.5	1.0	2	2	0.4
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	J	2	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	3	1.0	5	5	1
67-64-1	Acetone		13	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.9	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	J	0.8	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		3	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		2	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)		3	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	E	1200	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		24	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane		1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		2	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene		1	1.0	1	1	0.2
100-41-4	Ethylbenzene		8	1.0	1	1	0.2
1330-20-7	Xylenes (total)		10	1.0	3	3	0.2
	m+p-Xylenes		6	1.0	2	2	0.6
95-47-6	o-Xylene		4	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 16:17
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-9
Client ID: MW-207I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	J	0.5	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene		1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		2	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		95%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 19:48
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-9DL
Client ID: MW-207I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	4	2.0	2	4	0.5
74-87-3	Chloromethane	U	4	2.0	2	4	0.7
75-01-4	Vinyl chloride	U	4	2.0	2	4	0.5
74-83-9	Bromomethane	U	4	2.0	2	4	1.0
75-00-3	Chloroethane	U	4	2.0	2	4	1
75-69-4	Trichlorofluoromethane	U	4	2.0	2	4	0.5
75-35-4	1,1-Dichloroethene	U	2	2.0	1	2	0.7
75-15-0	Carbon Disulfide	U	2	2.0	1	2	0.5
75-09-2	Methylene Chloride	J	3	2.0	5	10	2
67-64-1	Acetone		12	2.0	5	10	4
156-60-5	trans-1,2-Dichloroethene	J	0.8	2.0	1	2	0.5
1634-04-4	Methyl tert-butyl ether	J	2	2.0	1	2	0.7
75-34-3	1,1-Dichloroethane		2	2.0	1	2	0.4
108-05-4	Vinyl Acetate	U	2	2.0	1	2	0.8
156-59-2	cis-1,2-Dichloroethene	J	2	2.0	1	2	0.4
540-59-0	1,2-Dichloroethylene (total)	J	3	2.0	2	4	0.4
67-66-3	Chloroform	U	2	2.0	1	2	0.6
56-23-5	Carbon Tetrachloride	U	2	2.0	1	2	0.4
109-99-9	Tetrahydrofuran		990	2.0	5	10	3
71-55-6	1,1,1-Trichloroethane	U	2	2.0	1	2	0.4
78-93-3	2-Butanone	U	10	2.0	5	10	3
71-43-2	Benzene		21	2.0	1	2	0.5
107-06-2	1,2-Dichloroethane	J	1	2.0	1	2	0.4
79-01-6	Trichloroethene	U	2	2.0	1	2	0.6
78-87-5	1,2-Dichloropropane	U	2	2.0	1	2	0.5
75-27-4	Bromodichloromethane	U	2	2.0	1	2	0.7
10061-01-5	cis-1,3-dichloropropene	U	2	2.0	1	2	0.4
108-88-3	Toluene		2	2.0	1	2	0.5
108-10-1	4-methyl-2-pentanone	U	10	2.0	5	10	3
127-18-4	Tetrachloroethene	U	2	2.0	1	2	0.8
10061-02-6	trans-1,3-Dichloropropene	U	2	2.0	1	2	0.4
79-00-5	1,1,2-Trichloroethane	U	2	2.0	1	2	0.7
124-48-1	Dibromochloromethane	U	2	2.0	1	2	0.6
106-93-4	1,2-Dibromoethane	U	2	2.0	1	2	0.4
591-78-6	2-Hexanone	U	10	2.0	5	10	3
108-90-7	Chlorobenzene	J	1	2.0	1	2	0.4
100-41-4	Ethylbenzene		7	2.0	1	2	0.4
1330-20-7	Xylenes (total)		10	2.0	3	6	0.5
	m+p-Xylenes		5	2.0	2	4	1
95-47-6	o-Xylene		4	2.0	1	2	0.5
100-42-5	Styrene	U	2	2.0	1	2	0.5
75-25-2	Bromoform	U	2	2.0	1	2	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	2	2.0	1	2	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 16-DEC-2010 19:48
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-9DL
Client ID: MW-207I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	1	2.0	1	2	0.4
95-63-6	1,2,4-Trimethylbenzene	J	0.6	2.0	1	2	0.4
541-73-1	1,3-Dichlorobenzene	U	2	2.0	1	2	0.5
106-46-7	1,4-Dichlorobenzene	U	2	2.0	1	2	0.5
95-50-1	1,2-Dichlorobenzene		2	2.0	1	2	0.3
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		101%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-207I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	23.1			P	1	8.0	1.86

Bottle ID: G

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-207I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-010

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	21.2			P	1	8.0	1.86

Bottle ID: A

Comments:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 16:50
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-11
Client ID: MW-209I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide		3	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	3	1.0	5	5	1
67-64-1	Acetone		7	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.9	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	J	0.4	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		4	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		2	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)		2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran		360	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		19	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane		1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		3	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	J	3	1.0	5	5	2
108-90-7	Chlorobenzene	J	0.7	1.0	1	1	0.2
100-41-4	Ethylbenzene		18	1.0	1	1	0.2
1330-20-7	Xylenes (total)		31	1.0	3	3	0.2
	m+p-Xylenes		22	1.0	2	2	0.6
95-47-6	o-Xylene		9	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 16:50
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-11
Client ID: MW-209I
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	0.8	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene		1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	J	0.4	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		2	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		102%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-209I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	27.5			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-209I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-012

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	23.0			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 13:31
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-13
Client ID: TRIP BLANK
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide		3	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.6
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 15-DEC-2010 13:31
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: SD7664-13
Client ID: TRIP BLANK
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		111%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		103%				

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: DOVER LANDFILL SDG No.: GEO-17

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG86316-LCS	WG86316-1	104	104	96	100	0
02	WG86316-LCSD	WG86316-5	100	97	99	104	0
03	WG86316-BLANK	WG86316-2	106	113	101	104	0
04	TRIP BLANK	SD7664-13	111	118	101	103	0
05	MW-200I	SD7664-1	110	116	101	104	0
06	SB-B2	SD7664-3	93	100	99	95	0
07	MW-208I	SD7664-5	102	112	99	103	0
08	FIELD DUPLICATE	SD7664-7	99	110	101	106	0
09	MW-207I	SD7664-9	95	105	94	98	0
10	MW-209I	SD7664-11	98	108	98	102	0
11	MW-207IMS	WG86316-3	93	84	100	100	0
12	MW-207IMSD	WG86316-4	96	90	99	101	0
13	WG86349-LCS	WG86349-1	101	102	106	103	0
14	WG86349-LCSD	WG86349-3	105	108	106	113	0
15	WG86349-BLANK	WG86349-2	104	107	104	110	0
16	SB-B2	SD7664-3DL	98	105	101	105	0
17	MW-208I	SD7664-5DL	97	105	99	103	0
18	FIELD DUPLICATE	SD7664-7DL	97	106	99	102	0
19	MW-207I	SD7664-9DL	97	103	97	101	0
20							
21							
22							
23							
24							
25							
26							
27							
28							

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(68-128)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(67-135)
SMC3 (TOL)	= Toluene-D8	(65-128)
SMC4 (BFB)	= P-Bromofluorobenzene	(56-133)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG86316-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: DOVER LANDFILL SDG No.: GEO-17

Lab File ID: T0808 Lab Sample ID: WG86316-2

Date Analyzed: 12/15/10 Time Analyzed: 1225

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-T

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG86316-LCS	WG86316-1	T0805	12/15/10	1046
02	WG86316-LCSD	WG86316-5	T0806	12/15/10	1119
03	TRIP BLANK	SD7664-13	T0810	12/15/10	1331
04	MW-200I	SD7664-1	T0811	12/15/10	1404
05	SB-B2	SD7664-3	T0812	12/15/10	1437
06	MW-208I	SD7664-5	T0813	12/15/10	1511
07	FIELD DUPLICATE	SD7664-7	T0814	12/15/10	1544
08	MW-207I	SD7664-9	T0815	12/15/10	1617
09	MW-209I	SD7664-11	T0816	12/15/10	1650
10	MW-207IMS	WG86316-3	T0817	12/15/10	1723
11	MW-207IMSD	WG86316-4	T0818	12/15/10	1756
12					
13					
14					
15					
16					
17					
18					
19					
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21					
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24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 15-DEC-2010 12:25
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: WG86316-2
Client ID: WG86316-Blank
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.4
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.5
75-00-3	Chloroethane	U	1	1.0	1	1	0.6
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.6
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 15-DEC-2010 12:25
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: WG86316-2
Client ID: WG86316-Blank
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		113%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		104%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 12/15/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86316-1 & WG86316-5
Client ID: WG86316-LCS & WG86316-LCSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dichlorodifluoromethane	50	50	NA	64	62	129	123	4	20	29-164
Chloromethane	50	50	NA	56	54	112	107	4	20	59-123
Vinyl chloride	50	50	NA	51	50	102	101	1	20	64-131
Bromomethane	50	50	NA	25	27	* 51	* 54	7	20	57-135
Chloroethane	50	50	NA	28	26	55	* 52	6	20	53-157
Trichlorofluoromethane	50	50	NA	50	48	101	96	4	20	70-149
Diethyl Ether	50	50	NA	44	40	88	81	8	20	78-124
Tertiary-butyl alcohol	250	250	NA	198	190	79	76	4	20	11-151
1,1-Dichloroethene	50	50	NA	55	55	110	110	0.2	20	88-127
Carbon Disulfide	50	50	NA	42	41	85	83	3	20	71-129
Freon-113	50	50	NA	45	45	89	90	0.9	20	73-126
Iodomethane	50	50	NA	29	30	59	60	2	20	54-155
Acrolein	250	250	NA	218	198	87	79	10	20	62-135
Methylene Chloride	50	50	NA	52	50	104	101	3	20	72-129
Acetone	50	50	NA	78	68	156	137	13	20	62-172
Isobutyl Alcohol	1000	1000	NA	931	912	93	91	2	20	16-147
trans-1,2-Dichloroethene	50	50	NA	51	51	103	101	1	20	78-125
Allyl Chloride	50	50	NA	50	46	100	92	9	20	78-121
Methyl tert-butyl ether	100	100	NA	51	49	* 51	* 49	5	20	81-125
Acetonitrile	500	500	NA	461	420	92	84	9	20	61-125
Di-isopropyl ether	50	50	NA	50	47	100	94	6	20	81-123
Chloroprene	50	50	NA	48	46	95	93	2	20	75-128
Methacrylonitrile	500	500	NA	484	454	97	91	6	20	78-123
Propionitrile	500	500	NA	471	451	94	90	4	20	75-118
1,1-Dichloroethane	50	50	NA	54	52	108	104	4	20	76-130
Acrylonitrile	250	250	NA	236	217	94	87	8	20	76-120
Ethyl tertiary-butyl ether	50	50	NA	34	32	* 68	* 64	7	20	85-119
Vinyl Acetate	50	50	NA	44	45	87	90	3	20	56-129
cis-1,2-Dichloroethene	50	50	NA	55	52	110	105	5	20	85-123
1,2-Dichloroethylene (total)	100	100	NA	106	103	106	103	3	20	84-121
Methyl Methacrylate	50	50	NA	42	43	83	86	4	20	79-121
2,2-Dichloropropane	50	50	NA	39	39	79	77	2	20	70-132
Bromochloromethane	50	50	NA	50	51	100	101	1	20	85-117
Chloroform	50	50	NA	54	53	108	106	2	20	78-128
Carbon Tetrachloride	50	50	NA	54	57	109	114	4	20	87-126
Tetrahydrofuran	50	50	NA	49	47	98	95	3	20	74-123
1,1,1-Trichloroethane	50	50	NA	52	52	104	104	0.2	20	77-129
1,1-Dichloropropene	50	50	NA	49	53	99	105	6	20	87-118
2-Butanone	50	50	NA	58	58	116	117	0.2	20	71-132
Benzene	50	50	NA	49	51	98	101	3	20	86-116
Cyclohexane	50	50	NA	57	56	115	113	2	20	71-133
Ethyl Methacrylate	50	50	NA	45	45	89	90	0.4	20	80-125
Tertiary-amyl methyl ether	50	50	NA	36	35	* 72	* 70	4	20	80-121
1,2-Dichloroethane	50	50	NA	50	50	99	99	0.2	20	81-125
Trichloroethene	50	50	NA	47	50	94	101	7	20	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 12/15/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86316-1 & WG86316-5
Client ID: WG86316-LCS & WG86316-LCSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dibromomethane	50	50	NA	49	51	97	101	4	20	85-117
1,2-Dichloropropane	50	50	NA	49	51	99	102	3	20	84-118
Bromodichloromethane	50	50	NA	50	52	101	104	2	20	85-122
cis-1,3-dichloropropene	50	50	NA	49	50	99	101	2	20	83-119
1,4-Dioxane	1000	1000	NA	874	967	87	97	10	20	10-149
2-Chloroethylvinylether	50	50	NA	10	10	* 20	* 21	2	20	39-135
Toluene	50	50	NA	47	51	95	103	8	20	84-118
4-methyl-2-pentanone	50	50	NA	53	51	106	102	5	20	83-122
Tetrachloroethene	50	50	NA	56	66	113	131	15	20	47-155
trans-1,3-Dichloropropene	50	50	NA	55	55	110	109	0.7	20	85-135
1,1,2-Trichloroethane	50	50	NA	52	52	103	105	2	20	84-115
Dibromochloromethane	50	50	NA	48	52	96	104	8	20	85-119
1,3-Dichloropropane	50	50	NA	44	50	89	100	11	20	80-119
1,2-Dibromoethane	50	50	NA	50	51	101	102	0.8	20	84-116
2-Hexanone	50	50	NA	52	59	105	117	11	20	80-124
Chlorobenzene	50	50	NA	49	52	97	105	7	20	89-113
Ethylbenzene	50	50	NA	48	51	95	102	7	20	88-113
1,1,1,2-Tetrachloroethane	50	50	NA	50	53	100	106	6	20	88-118
Xylenes (total)	150	150	NA	141	156	94	104	10	20	89-116
m+p-Xylenes	100	100	NA	94	104	94	104	10	20	88-116
o-Xylene	50	50	NA	48	52	95	104	9	20	90-116
Styrene	50	50	NA	49	54	99	108	9	20	88-117
Bromoform	50	50	NA	50	52	99	105	6	20	86-117
Isopropylbenzene	50	50	NA	56	57	112	114	2	20	96-136
cis-1,4-Dichloro-2-Butene	50	50	NA	43	44	86	88	2	20	59-136
trans-1,4-Dichloro-2-Butene	50	50	NA	41	41	81	82	0.5	20	63-132
Bromobenzene	50	50	NA	46	49	92	97	5	20	84-113
N-Propylbenzene	50	50	NA	48	50	96	101	5	20	83-121
1,1,2,2-Tetrachloroethane	50	50	NA	48	50	97	100	3	20	79-121
1,3,5-Trimethylbenzene	50	50	NA	47	50	94	99	5	20	80-123
2-Chlorotoluene	50	50	NA	46	49	92	98	6	20	81-120
1,2,3-Trichloropropane	50	50	NA	46	49	93	99	6	20	77-120
4-Chlorotoluene	50	50	NA	48	50	96	100	4	20	81-122
tert-Butylbenzene	50	50	NA	45	47	90	94	4	20	84-121
Pentachloroethane	50	50	NA	33	35	66	70	6	20	19-186
1,2,4-Trimethylbenzene	50	50	NA	47	50	94	100	6	20	83-118
P-Isopropyltoluene	50	50	NA	51	54	102	107	5	20	88-121
1,3-Dichlorobenzene	50	50	NA	47	49	93	98	5	20	86-110
1,4-Dichlorobenzene	50	50	NA	45	48	91	96	6	20	86-111
N-Butylbenzene	50	50	NA	48	51	97	102	5	20	78-121
sec-Butylbenzene	50	50	NA	49	51	97	102	5	20	82-122
1,2-Dichlorobenzene	50	50	NA	47	49	94	98	4	20	86-112
1,2-Dibromo-3-Chloropropane	50	50	NA	46	47	92	94	2	20	67-124
1,3,5-Trichlorobenzene	50	50	NA	41	43	83	87	5	20	77-120
Hexachlorobutadiene	50	50	NA	48	51	95	103	7	20	73-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 12/15/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86316-1 & WG86316-5
Client ID: WG86316-LCS & WG86316-LCSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2,4-Trichlorobenzene	50	50	NA	49	52	99	103	4	20	76-126
1,2,3-Trimethylbenzene	50	50	NA	43	45	87	90	4	20	85-119
Naphthalene	50	50	NA	43	44	86	89	4	20	62-126
1,2,3-Trichlorobenzene	50	50	NA	46	50	93	99	6	20	70-122
Methyl Acetate	50	50	NA	52	48	104	96	8	20	70-132
Methylcyclohexane	50	50	NA	46	46	93	93	0.0	20	73-125
1-Chlorohexane	50	50	NA	46	52	93	104	11	20	73-119
Total Alkylbenzenes	350	350	NA	335	353	96	101	5	20	85-119

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 12/15/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86316-3 & WG86316-4
Client ID: MW-207IMS & MW-207IMSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dichlorodifluoromethane	50	50	0.00	56	60	113	120	6	20	29-164
Chloromethane	50	50	0.53	49	51	97	100	4	20	59-123
Vinyl chloride	50	50	0.00	46	48	93	96	3	20	64-131
Bromomethane	50	50	0.00	23	26	* 46	* 52	12	20	57-135
Chloroethane	50	50	1.7	35	33	66	63	4	20	53-157
Trichlorofluoromethane	50	50	0.00	44	47	87	94	7	20	70-149
1,1-Dichloroethene	50	50	0.00	49	50	98	101	3	20	88-127
Carbon Disulfide	50	50	0.00	37	40	74	79	8	20	71-129
Methylene Chloride	50	50	3.3	42	46	77	85	10	20	72-129
Acetone	50	50	13	47	55	67	83	16	20	62-172
trans-1,2-Dichloroethene	50	50	0.94	46	48	90	95	5	20	78-125
Methyl tert-butyl ether	100	100	0.81	48	51	* 47	* 50	5	20	81-125
1,1-Dichloroethane	50	50	2.9	43	50	79	93	15	20	76-130
Vinyl Acetate	50	50	0.00	37	41	74	82	11	20	56-129
cis-1,2-Dichloroethene	50	50	1.9	48	50	93	96	3	20	85-123
1,2-Dichloroethylene (total)	100	100	2.9	94	98	91	95	4	20	84-121
Chloroform	50	50	0.00	44	48	87	95	9	20	78-128
Carbon Tetrachloride	50	50	0.00	51	54	103	108	5	20	87-126
Tetrahydrofuran	50	50	1160	952	1030	NC	NC	8	20	74-123
1,1,1-Trichloroethane	50	50	0.00	44	49	89	97	9	20	77-129
2-Butanone	50	50	0.00	42	49	84	98	16	20	71-132
Benzene	50	50	24	68	69	88	90	1	20	86-116
1,2-Dichloroethane	50	50	1.2	40	44	* 78	86	10	20	81-125
Trichloroethene	50	50	0.00	46	46	91	92	0.9	20	79-121
1,2-Dichloropropane	50	50	0.00	43	44	86	89	4	20	84-118
Bromodichloromethane	50	50	0.00	44	45	88	90	3	20	85-122
cis-1,3-dichloropropene	50	50	0.00	42	44	85	88	3	20	83-119
Toluene	50	50	2.5	49	49	93	93	0.0	20	84-118
4-methyl-2-pentanone	50	50	0.00	52	50	104	100	4	20	83-122
Tetrachloroethene	50	50	0.00	48	48	95	96	0.8	20	47-155
trans-1,3-Dichloropropene	50	50	0.00	48	49	97	99	2	20	85-135
1,1,2-Trichloroethane	50	50	0.00	46	47	91	93	2	20	84-115
Dibromochloromethane	50	50	0.00	46	45	91	89	2	20	85-119
1,2-Dibromoethane	50	50	0.00	45	45	90	90	0.4	20	84-116
2-Hexanone	50	50	0.00	51	49	101	97	4	20	80-124
Chlorobenzene	50	50	1.2	48	48	94	94	0.6	20	89-113
Ethylbenzene	50	50	7.6	55	55	94	94	0.2	20	88-113
Xylenes (total)	150	150	10	149	151	92	94	1	20	89-116
m+p-Xylenes	100	100	5.8	98	100	92	94	2	20	88-116
o-Xylene	50	50	4.4	51	52	93	94	1.0	20	90-116
Styrene	50	50	0.00	48	48	95	97	2	20	88-117
Bromoform	50	50	0.00	46	46	92	93	0.4	20	86-117
1,1,2,2-Tetrachloroethane	50	50	0.00	48	46	96	93	3	20	79-121
1,3,5-Trimethylbenzene	50	50	1.1	47	47	92	92	0.2	20	80-123
1,2,4-Trimethylbenzene	50	50	0.52	46	46	90	91	0.9	20	83-118

FORM III VOA-1 T0817.D & T0818.D

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 12/08/10
Received Date: 12/09/10
Extraction Date:
Analysis Date: 12/15/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86316-3 & WG86316-4
Client ID: MW-207IMS & MW-207IMSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86316
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,3-Dichlorobenzene	50	50	0.00	44	45	89	91	2	20	86-110
1,4-Dichlorobenzene	50	50	1.1	44	45	86	88	2	20	86-111
1,2-Dichlorobenzene	50	50	2.1	48	47	91	89	2	20	86-112

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG86349-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: DOVER LANDFILL SDG No.: GEO-17

Lab File ID: T0836 Lab Sample ID: WG86349-2

Date Analyzed: 12/16/10 Time Analyzed: 1523

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-T

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG86349-LCS	WG86349-1	T0833	12/16/10	1343
02	WG86349-LCSD	WG86349-3	T0834	12/16/10	1417
03	SB-B2	SD7664-3DL	T0841	12/16/10	1809
04	MW-208I	SD7664-5DL	T0842	12/16/10	1842
05	FIELD DUPLICATE	SD7664-7DL	T0843	12/16/10	1915
06	MW-207I	SD7664-9DL	T0844	12/16/10	1948
07					
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COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 16-DEC-2010 15:23
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: WG86349-2
Client ID: WG86349-Blank
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.4
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.5
75-00-3	Chloroethane	U	1	1.0	1	1	0.6
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.3	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.6
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 16-DEC-2010 15:23
Report Date: 12/17/2010
Matrix: WATER
% Solids: NA

Lab ID: WG86349-2
Client ID: WG86349-Blank
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	J	0.2	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		107%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		110%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 12/16/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86349-1 & WG86349-3
Client ID: WG86349-LCS & WG86349-LCSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Dichlorodifluoromethane	50	50	NA	49	48	98	95		3	20	29-164
Chloromethane	50	50	NA	48	47	95	93		2	20	59-123
Vinyl chloride	50	50	NA	52	51	104	101		2	20	64-131
Bromomethane	50	50	NA	40	47	80	94		16	20	57-135
Chloroethane	50	50	NA	31	38	62	77	*	22	20	53-157
Trichlorofluoromethane	50	50	NA	51	52	103	105		2	20	70-149
Diethyl Ether	50	50	NA	49	48	97	96		2	20	78-124
Tertiary-butyl alcohol	250	250	NA	262	248	105	99		5	20	11-151
1,1-Dichloroethene	50	50	NA	47	46	94	91		3	20	88-127
Carbon Disulfide	50	50	NA	38	37	76	75		2	20	71-129
Freon-113	50	50	NA	52	54	104	107		3	20	73-126
Iodomethane	50	50	NA	44	47	87	94		8	20	54-155
Acrolein	250	250	NA	232	244	93	98		5	20	62-135
Methylene Chloride	50	50	NA	42	41	84	83		2	20	72-129
Acetone	50	50	NA	56	57	113	115		2	20	62-172
Isobutyl Alcohol	1000	1000	NA	890	874	89	87		2	20	16-147
trans-1,2-Dichloroethene	50	50	NA	45	44	90	88		2	20	78-125
Allyl Chloride	50	50	NA	38	39	* 77	78		2	20	78-121
Methyl tert-butyl ether	100	100	NA	113	106	113	106		6	20	81-125
Acetonitrile	500	500	NA	421	394	84	79		7	20	61-125
Di-isopropyl ether	50	50	NA	51	51	103	102		0.6	20	81-123
Chloroprene	50	50	NA	53	53	105	106		0.6	20	75-128
Methacrylonitrile	500	500	NA	497	490	99	98		1	20	78-123
Propionitrile	500	500	NA	479	478	96	96		0.2	20	75-118
1,1-Dichloroethane	50	50	NA	48	48	96	96		0.2	20	76-130
Acrylonitrile	250	250	NA	247	243	99	97		2	20	76-120
Ethyl tertiary-butyl ether	50	50	NA	54	52	108	104		4	20	85-119
Vinyl Acetate	50	50	NA	47	50	95	99		5	20	56-129
cis-1,2-Dichloroethene	50	50	NA	49	49	97	98		1	20	85-123
1,2-Dichloroethylene (total)	100	100	NA	94	93	94	93		0.4	20	84-121
Methyl Methacrylate	50	50	NA	58	53	116	105		10	20	79-121
2,2-Dichloropropane	50	50	NA	43	47	86	93		8	20	70-132
Bromochloromethane	50	50	NA	48	48	97	96		0.6	20	85-117
Chloroform	50	50	NA	50	50	100	99		0.4	20	78-128
Carbon Tetrachloride	50	50	NA	51	50	102	100		2	20	87-126
Tetrahydrofuran	50	50	NA	42	41	84	81		3	20	74-123
1,1,1-Trichloroethane	50	50	NA	48	48	97	96		0.4	20	77-129
1,1-Dichloropropene	50	50	NA	47	47	94	93		1	20	87-118
2-Butanone	50	50	NA	48	50	97	101		4	20	71-132
Benzene	50	50	NA	46	46	91	92		0.9	20	86-116
Cyclohexane	50	50	NA	49	50	98	101		3	20	71-133
Ethyl Methacrylate	50	50	NA	60	60	120	119		0.5	20	80-125
Tertiary-amyl methyl ether	50	50	NA	53	54	107	107		0.7	20	80-121
1,2-Dichloroethane	50	50	NA	50	49	100	97		3	20	81-125
Trichloroethene	50	50	NA	47	47	95	93		1	20	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 12/16/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86349-1 & WG86349-3
Client ID: WG86349-LCS & WG86349-LCSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Dibromomethane	50	50	NA	54	50	108	100		7	20	85-117
1,2-Dichloropropane	50	50	NA	48	45	95	89		6	20	84-118
Bromodichloromethane	50	50	NA	52	50	103	99		4	20	85-122
cis-1,3-dichloropropene	50	50	NA	49	48	99	97		2	20	83-119
1,4-Dioxane	1000	1000	NA	1190	965	119	96	*	21	20	10-149
2-Chloroethylvinylether	50	50	NA	39	34	78	67		15	20	39-135
Toluene	50	50	NA	50	48	101	97		4	20	84-118
4-methyl-2-pentanone	50	50	NA	56	56	111	113		1	20	83-122
Tetrachloroethene	50	50	NA	54	42	109	85	*	24	20	47-155
trans-1,3-Dichloropropene	50	50	NA	57	56	114	112		2	20	85-135
1,1,2-Trichloroethane	50	50	NA	52	51	105	102		2	20	84-115
Dibromochloromethane	50	50	NA	53	47	105	95		11	20	85-119
1,3-Dichloropropane	50	50	NA	47	44	94	88		6	20	80-119
1,2-Dibromoethane	50	50	NA	50	52	100	103		2	20	84-116
2-Hexanone	50	50	NA	48	53	96	107		10	20	80-124
Chlorobenzene	50	50	NA	46	46	93	93		0.2	20	89-113
Ethylbenzene	50	50	NA	46	46	93	92		1	20	88-113
1,1,1,2-Tetrachloroethane	50	50	NA	51	49	102	98		4	20	88-118
Xylenes (total)	150	150	NA	138	139	92	93		0.7	20	89-116
m+p-Xylenes	100	100	NA	91	90	91	90		0.1	20	88-116
o-Xylene	50	50	NA	47	49	95	97		3	20	90-116
Styrene	50	50	NA	47	48	94	96		2	20	88-117
Bromoform	50	50	NA	50	50	100	100		0.2	20	86-117
Isopropylbenzene	50	50	NA	54	53	109	106		3	20	96-136
cis-1,4-Dichloro-2-Butene	50	50	NA	52	51	104	102		2	20	59-136
trans-1,4-Dichloro-2-Butene	50	50	NA	47	49	94	99		5	20	63-132
Bromobenzene	50	50	NA	47	45	94	89		5	20	84-113
N-Propylbenzene	50	50	NA	47	46	94	92		2	20	83-121
1,1,2,2-Tetrachloroethane	50	50	NA	48	47	96	93		2	20	79-121
1,3,5-Trimethylbenzene	50	50	NA	47	48	95	95		0.8	20	80-123
2-Chlorotoluene	50	50	NA	46	49	91	97		6	20	81-120
1,2,3-Trichloropropane	50	50	NA	50	48	100	95		5	20	77-120
4-Chlorotoluene	50	50	NA	47	48	94	96		1	20	81-122
tert-Butylbenzene	50	50	NA	48	51	96	102		6	20	84-121
Pentachloroethane	50	50	NA	41	53	81	107	*	27	20	19-186
1,2,4-Trimethylbenzene	50	50	NA	46	48	92	96		3	20	83-118
P-Isopropyltoluene	50	50	NA	50	50	100	100		0.0	20	88-121
1,3-Dichlorobenzene	50	50	NA	46	47	92	94		2	20	86-110
1,4-Dichlorobenzene	50	50	NA	50	50	100	101		0.8	20	86-111
N-Butylbenzene	50	50	NA	46	48	92	95		4	20	78-121
sec-Butylbenzene	50	50	NA	47	49	94	97		3	20	82-122
1,2-Dichlorobenzene	50	50	NA	46	46	93	92		1	20	86-112
1,2-Dibromo-3-Chloropropane	50	50	NA	52	49	104	98		6	20	67-124
1,3,5-Trichlorobenzene	50	50	NA	51	47	102	94		9	20	77-120
Hexachlorobutadiene	50	50	NA	45	42	90	84		6	20	73-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 12/16/10
Report Date: 12/17/2010
Matrix: WATER

Lab ID: WG86349-1 & WG86349-3
Client ID: WG86349-LCS & WG86349-LCSD
SDG: GEO-17
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG86349
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2,4-Trichlorobenzene	50	50	NA	50	46	100	91	9	20	76-126
1,2,3-Trimethylbenzene	50	50	NA	51	51	101	103	1	20	85-119
Naphthalene	50	50	NA	46	41	91	82	11	20	62-126
1,2,3-Trichlorobenzene	50	50	NA	50	45	100	91	9	20	70-122
Methyl Acetate	50	50	NA	50	51	101	102	1.0	20	70-132
Methylcyclohexane	50	50	NA	50	51	99	102	3	20	73-125
1-Chlorohexane	50	50	NA	47	47	95	95	0.2	20	73-119
Total Alkylbenzenes	350	350	NA	332	339	95	97	2	20	85-119

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWAL10ICW0

Matrix: WATER **SDG Name:** GEO-17

QC Batch ID: AL10ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	1.860	U

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Matrix: WATER

Percent Solids: 0.00

Client Field ID: MW-207IS

SDG Name: GEO-17

Lab Sample ID: SD7664-009P

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, TOTAL	128.3000		23.0600		100	105.2		75	125	P

Comments:

FORM V (Part 1) - IN

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Matrix: WATER

Percent Solids: 0.00

Client Field ID: MW-207IS

SDG Name: GEO-17

Lab Sample ID: SD7664-009S

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, TOTAL	127.3000		23.0600		100	104.2		75	125	P

Comments:

FORM V (Part 1) - IN

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-207I

Matrix: WATER **SDG Name:** GEO-17

Percent Solids: 0.00 **Lab Sample ID:** SD7664-009

Concentration Units : ug/L

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
ARSENIC, TOTAL		127.3000		128.3000		0.8		P

Comments:

FORM VD - IN

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LC2WAL10ICW0

Matrix: WATER **SDG Name:** GEO-17

QC Batch ID: AL10ICW0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100.0	99.51	99.5	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWAL10ICW0

Matrix: WATER **SDG Name:** GEO-17

QC Batch ID: AL10ICW0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100.0	97.84	97.8	80	120

7D

LABORATORY CONTROL SAMPLE DUPLICATES

Lab Name: Katahdin Analytical Services

Matrix: WATER | **SDG Name:** GEO-17

QC Batch ID: AL10ICW0 | **Lab Sample ID:** LCSWAL10ICW0

Concentration Units: ug/L

Analyte	Control Limit (%)	LCS Result	LCS Dup. Result	RPD(%)	Q
ARSENIC	20.0	97.84	99.51	1.7	

FORM VIID - IN

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services | **Client Field ID:** MW-207IL

Matrix: WATER | **SDG Name:** GEO-17

Lab Sample ID: SD7664-009L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	23.06		20.14	J	12.7		P

Client: Geo Insight	KAS PM: SMB	Sampled By: Client
Project:	KIMS Entry By: DD	Delivered By: KAS
KAS Work Order#: SD 76664	KIMS Review By: [illegible]	Received By: DD
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 12/9/10 1635

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 1.2
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?	✓				Trip Blank not on COC. Added to Log In.
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin ANALYTICAL SERVICES

600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: GeoInsight Inc.	Contact: Kristin Zeman	Phone #: (978) 679-1600	Fax #: (978) 679-1601
Address: 1 Monarch Drive Suite 201	City: Littleton	State: MA	Zip Code:
Purchase Order #:	Proj. Name / No.: Dover / 2009		Katahdin Quote #:
Bill (if different than above): Accounts Payable	Address: 186 Granite Street Manchester, NH		
Sampler (Print / Sign): Shauna Little / Renee Strondak		Copies To:	

LAB USE ONLY WORK ORDER #: SD7664
KATAHDIN PROJECT NUMBER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs + THF (Filt. ☐Y ☒N)	Total As (Filt. ☐Y ☒N)	Dissolved As (Filt. ☒Y ☐N)							
	MW-200 I	12/8/10 / 11:00	GW	5	X	X	X							
	SB-B2	12/8/10 / 1:45	GW	5	X	X	X							
	MW-208 I	12/8/10 / 1:50	GW	5	X	X	X							
	Field Duplicate	12/8/10 / 2:45	GW	5	X	X	X							
	MW-207 I	12/8/10 / 3:10	GW	10	X	X	X							
	MW-209 I	12/8/10 / 4:15	GW	5	X	X	X							
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS Run MS/MSD from extra volume collected @ MW-207 I labeled MS/MSD; SDG-GEO-17; Dissolved As samples were field filtered

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	12/9/10 1355				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

:AS-COC1

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Dec. 10, 2010
09:39 AM

Login Number: SD7664

Account: GEOI001
Geo Insight, Inc.

Project: GEOA8260
New Special List

NoWeb

Quote/Incoming: GEODOV001

Primary Report Address:
Kristin Zeman
Geo Insight, Inc.
1 Monarch Drive
Suite 201
Littleton,MA 01460

Primary Invoice Address:
Accounts Payable
Geo Insight, Inc.
186 Granite Street
Suite A 3rd Floor
Manchester,NH 03101

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Report to MDL, Run LCS/LCS Dup, Include Narrative, Include Form II, Use package Generator for Metals Report
CHECK NO.	:	
CLIENT PO#	:	
COOLER TEMPERATURE	:	1.2
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	WEST-XLS-QC
LOGIN INITIALS	:	DD
PM	:	SMB
PROJECT NAME	:	Dover Landfill
QC LEVEL	:	II+
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Report to MDL, Run LCS/LCS Dup, Include Narrative, Include Form II, Use package Generator for Metals Report
SDG ID	:	GEO-17
SDG STATUS	:	Begin/End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SD7664-1	MW-200I	08-DEC-10 11:00	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	22-DEC-10	40mL Vial+HCl		

SD7664-2	MW-200I	08-DEC-10 11:00	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	06-JUN-11	250mL Plastic+HNO3		

SD7664-3	SB-B2	08-DEC-10 13:45	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	22-DEC-10	40mL Vial+HCl		

SD7664-4	SB-B2	08-DEC-10 13:45	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	06-JUN-11	250mL Plastic+HNO3		

SD7664-5	MW-208I	08-DEC-10 13:50	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	22-DEC-10	40mL Vial+HCl		

SD7664-6	MW-208I	08-DEC-10 13:50	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	06-JUN-11	250mL Plastic+HNO3		

SD7664-7	FIELD DUPLICATE	08-DEC-10 14:45	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	22-DEC-10	40mL Vial+HCl		

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Dec. 10, 2010
09:39 AM

Login Number: SD7664

Quote/Incoming: GEODOV001

Account: GEOI001
Geo Insight, Inc.

NoWeb

Project: GEOA8260
New Special List

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SD7664-8	FIELD DUPLICATE	08-DEC-10 14:45	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	06-JUN-11	250mL Plastic+HNO3		

SD7664-9	MW-207I	08-DEC-10 15:10	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		MS/MSD (6 vials for VOA; no extra volume for metals)
Aqueous	S	SW6010-ARSENIC	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	22-DEC-10	40mL Vial+HCl		

SD7664-10	MW-207I	08-DEC-10 15:10	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	06-JUN-11	250mL Plastic+HNO3		

SD7664-11	MW-209I	08-DEC-10 16:15	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	22-DEC-10	40mL Vial+HCl		

SD7664-12	MW-209I	08-DEC-10 16:15	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	06-JUN-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	06-JUN-11	250mL Plastic+HNO3		

SD7664-13	TRIP BLANK	08-DEC-10 00:00	09-DEC-10			23-DEC-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	22-DEC-10	40mL Vial+HCl		

Total Samples: *13* ***Total Analyses:*** *31*

Katahdin ANALYTICAL SERVICES

nelac Cert. No. E87604

October 6, 2010

Mr. Joel Trifilo
Geo Insight, Inc.
5 Lan Drive
Suite 200
Westford, MA 01886

RE:	Katahdin Lab Number:	SDG: GEO-16 (SD5805)
	Project ID:	Dover Landfill
	Project Manager:	Ms. Shelly Brown
	Sample Receipt Date(s):	September 22, 2010

Dear Mr. Trifilo:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert.html for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Deborah J. Nadeau
Authorized Signature

10/06/2010
Date

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
GEO INSIGHT, INC.
DOVER LANDFILL
SDG: GEO-16
SD5805

Sample Receipt

The following samples were received on September 22, 2010 and were logged in under Katahdin Analytical Services work order number SD5805 for a hardcopy due date of October 6, 2010.

KATAHDIN Sample No.	GEO INSIGHT Sample Identification
SD5805-1	MW-200I
SD5805-2	MW-200I
SD5805-3	SB-B2
SD5805-4	SB-B2
SD5805-5	FIELD DUP
SD5805-6	FIELD DUP
SD5805-7	MW-209I
SD5805-8	MW-209I
SD5805-9	MW-207I
SD5805-10	MW-207I
SD5805-11	MW-208I
SD5805-12	MW-208I
SD5805-13	TRIP BLANK

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Shelly Brown**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG GEO-16 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid

Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8260B Analysis

Sample SD5805-3 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as requested by the client.

At the client's request, a LCS and LCSD were analyzed with each analytical batch of samples. Due to laboratory error, a LCSD was not analyzed in the analytical batch WG82491 on the "F" instrument on 9/23/10.

The target analyte 1,2-dichlorobenzene was detected above the MDL, but below the PQL, in the method blank WG82551-2. The laboratory policy is not to take corrective action unless the concentration of target analytes is above the PQL. Any 1,2-dichlorobenzene that was also detected in any of the associated samples was flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed concurrently with the sample.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the laboratory SOP allowable number of exceedances. The LCS report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of SDG GEO-16 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA,III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Numbers SD5805-(1-12) were digested for ICP analysis on 10/01/10 (QC Batch AJ01ICW1) in accordance with USEPA Method 3010A. Duplicate laboratory control samples were prepared in this batch. Katahdin Sample Numbers SD5805-(3 and 4) were prepared with matrix-spiked aliquots.

ICP analyses of SDG GEO-16 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010B. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

The measured recovery of arsenic in the matrix-spiked aliquots of Katahdin Sample Numbers SD5805-(3 and 4) are within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added).

The serial dilution analyses of Katahdin Sample Numbers SD5805-(3 and 4) are within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the MDL) for arsenic.

Reporting of Metals Results

Analytical results for client samples, and batch QC samples (preparation blanks and laboratory control samples) have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
10.06.10

Leslie Dimond
Quality Assurance Officer

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	Spiked sample recovery not within control limits.
*	Duplicate sample analysis not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.
J	The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ) (previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 15:46
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-1
Client ID: MW0200I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	J	0.6	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	J	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	J	0.8	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	0.8	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran		140	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		7	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	J	2	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	J	0.7	1.0	1	1	0.2
100-41-4	Ethylbenzene		6	1.0	1	1	0.2
1330-20-7	Xylenes (total)		7	1.0	3	3	0.2
	m+p-Xylenes		3	1.0	2	2	0.6
95-47-6	o-Xylene		4	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 15:46
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-1
Client ID: MW0200I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	0.4	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	J	0.8	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	J	0.9	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		107%				
17060-07-0	1,2-Dichloroethane-D4		110%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		95%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-200I

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	18.4			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-200I

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	18.6			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 24-SEP-2010 19:15
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-3
Client ID: SB-B2
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	0.4	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane		3	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone		14	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.7	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether		1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		2	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	J	0.9	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	E	1600	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		28	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		2	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene		3	1.0	1	1	0.2
100-41-4	Ethylbenzene		18	1.0	1	1	0.2
1330-20-7	Xylenes (total)		56	1.0	3	3	0.2
	m+p-Xylenes		35	1.0	2	2	0.6
95-47-6	o-Xylene		21	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 24-SEP-2010 19:15
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-3
Client ID: SB-B2
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		3	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene		5	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene		1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	B	4	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		120%				
17060-07-0	1,2-Dichloroethane-D4		126%				
2037-26-5	Toluene-D8		109%				
460-00-4	P-Bromofluorobenzene		109%				

Page 02 of 02 F1436.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 30-SEP-2010 22:40
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-3DL
Client ID: SB-B2
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: DJP
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	20	10	2	20	2
74-87-3	Chloromethane	U	20	10	2	20	4
75-01-4	Vinyl chloride	U	20	10	2	20	2
74-83-9	Bromomethane	U	20	10	2	20	5
75-00-3	Chloroethane	U	20	10	2	20	6
75-69-4	Trichlorofluoromethane	U	20	10	2	20	2
75-35-4	1,1-Dichloroethene	U	10	10	1	10	4
75-15-0	Carbon Disulfide	U	10	10	1	10	2
75-09-2	Methylene Chloride	U	50	10	5	50	11
67-64-1	Acetone	J	44	10	5	50	22
156-60-5	trans-1,2-Dichloroethene	U	10	10	1	10	2
1634-04-4	Methyl tert-butyl ether	U	10	10	1	10	4
75-34-3	1,1-Dichloroethane	U	10	10	1	10	2
108-05-4	Vinyl Acetate	U	10	10	1	10	4
156-59-2	cis-1,2-Dichloroethene	U	10	10	1	10	2
540-59-0	1,2-Dichloroethylene (total)	U	20	10	2	20	2
67-66-3	Chloroform	U	10	10	1	10	3
56-23-5	Carbon Tetrachloride	U	10	10	1	10	2
109-99-9	Tetrahydrofuran		4700	10	5	50	17
71-55-6	1,1,1-Trichloroethane	U	10	10	1	10	2
78-93-3	2-Butanone	U	50	10	5	50	13
71-43-2	Benzene		59	10	1	10	3
107-06-2	1,2-Dichloroethane	U	10	10	1	10	2
79-01-6	Trichloroethene	U	10	10	1	10	3
78-87-5	1,2-Dichloropropane	U	10	10	1	10	2
75-27-4	Bromodichloromethane	U	10	10	1	10	3
10061-01-5	cis-1,3-dichloropropene	U	10	10	1	10	2
108-88-3	Toluene	J	6	10	1	10	3
108-10-1	4-methyl-2-pentanone	U	50	10	5	50	13
127-18-4	Tetrachloroethene	U	10	10	1	10	4
10061-02-6	trans-1,3-Dichloropropene	U	10	10	1	10	2
79-00-5	1,1,2-Trichloroethane	U	10	10	1	10	3
124-48-1	Dibromochloromethane	U	10	10	1	10	3
106-93-4	1,2-Dibromoethane	U	10	10	1	10	2
591-78-6	2-Hexanone	U	50	10	5	50	17
108-90-7	Chlorobenzene	J	7	10	1	10	2
100-41-4	Ethylbenzene		38	10	1	10	2
1330-20-7	Xylenes (total)		120	10	3	30	2
	m+p-Xylenes		76	10	2	20	6
95-47-6	o-Xylene		45	10	1	10	2
100-42-5	Styrene	U	10	10	1	10	2
75-25-2	Bromoform	U	10	10	1	10	2
79-34-5	1,1,2,2-Tetrachloroethane	U	10	10	1	10	4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 30-SEP-2010 22:40
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-3DL
Client ID: SB-B2
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: DJP
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	5	10	1	10	2
95-63-6	1,2,4-Trimethylbenzene	J	8	10	1	10	2
541-73-1	1,3-Dichlorobenzene	U	10	10	1	10	3
106-46-7	1,4-Dichlorobenzene	J	4	10	1	10	2
95-50-1	1,2-Dichlorobenzene	J	8	10	1	10	2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		110%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		96%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SB-B2
Matrix: WATER
SDG Name: GEO-16
Percent Solids: 0.00
Lab Sample ID: SD5805-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	18.0			P	1	8.0	1.86

Bottle ID: G

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SB-B2

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	18.6			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 16:18
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-5
Client ID: FIELD DUP
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	0.5	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane		3	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	1	1.0	5	5	1
67-64-1	Acetone		15	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.8	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether		1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		2	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	J	0.9	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	E	1700	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		30	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		3	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene		3	1.0	1	1	0.2
100-41-4	Ethylbenzene		20	1.0	1	1	0.2
1330-20-7	Xylenes (total)		62	1.0	3	3	0.2
	m+p-Xylenes		38	1.0	2	2	0.6
95-47-6	o-Xylene		24	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 16:18
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-5
Client ID: FIELD DUP
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene		2	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene		4	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene		2	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		4	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		115%				
17060-07-0	1,2-Dichloroethane-D4		125%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 24-SEP-2010 12:27
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-5DL
Client ID: FIELD DUP
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	8	4.0	2	8	1.0
74-87-3	Chloromethane	U	8	4.0	2	8	1
75-01-4	Vinyl chloride	U	8	4.0	2	8	1
74-83-9	Bromomethane	U	8	4.0	2	8	2
75-00-3	Chloroethane	J	2	4.0	2	8	2
75-69-4	Trichlorofluoromethane	U	8	4.0	2	8	1.0
75-35-4	1,1-Dichloroethene	U	4	4.0	1	4	1
75-15-0	Carbon Disulfide	U	4	4.0	1	4	1
75-09-2	Methylene Chloride	U	20	4.0	5	20	4
67-64-1	Acetone	U	20	4.0	5	20	9
156-60-5	trans-1,2-Dichloroethene	U	4	4.0	1	4	1
1634-04-4	Methyl tert-butyl ether	U	4	4.0	1	4	1
75-34-3	1,1-Dichloroethane	U	4	4.0	1	4	0.8
108-05-4	Vinyl Acetate	U	4	4.0	1	4	2
156-59-2	cis-1,2-Dichloroethene	U	4	4.0	1	4	0.8
540-59-0	1,2-Dichloroethylene (total)	U	8	4.0	2	8	0.8
67-66-3	Chloroform	U	4	4.0	1	4	1
56-23-5	Carbon Tetrachloride	U	4	4.0	1	4	0.9
109-99-9	Tetrahydrofuran		1400	4.0	5	20	7
71-55-6	1,1,1-Trichloroethane	U	4	4.0	1	4	0.8
78-93-3	2-Butanone	U	20	4.0	5	20	5
71-43-2	Benzene		26	4.0	1	4	1
107-06-2	1,2-Dichloroethane	U	4	4.0	1	4	0.8
79-01-6	Trichloroethene	U	4	4.0	1	4	1
78-87-5	1,2-Dichloropropane	U	4	4.0	1	4	1
75-27-4	Bromodichloromethane	U	4	4.0	1	4	1
10061-01-5	cis-1,3-dichloropropene	U	4	4.0	1	4	0.8
108-88-3	Toluene	J	3	4.0	1	4	1
108-10-1	4-methyl-2-pentanone	U	20	4.0	5	20	5
127-18-4	Tetrachloroethene	U	4	4.0	1	4	2
10061-02-6	trans-1,3-Dichloropropene	U	4	4.0	1	4	0.8
79-00-5	1,1,2-Trichloroethane	U	4	4.0	1	4	1
124-48-1	Dibromochloromethane	U	4	4.0	1	4	1
106-93-4	1,2-Dibromoethane	U	4	4.0	1	4	0.9
591-78-6	2-Hexanone	U	20	4.0	5	20	7
108-90-7	Chlorobenzene	J	3	4.0	1	4	0.9
100-41-4	Ethylbenzene		18	4.0	1	4	0.8
1330-20-7	Xylenes (total)		53	4.0	3	12	1
	m+p-Xylenes		34	4.0	2	8	2
95-47-6	o-Xylene		19	4.0	1	4	1
100-42-5	Styrene	U	4	4.0	1	4	0.9
75-25-2	Bromoform	U	4	4.0	1	4	0.9
79-34-5	1,1,2,2-Tetrachloroethane	U	4	4.0	1	4	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 24-SEP-2010 12:27
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-5DL
Client ID: FIELD DUP
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	2	4.0	1	4	0.8
95-63-6	1,2,4-Trimethylbenzene	J	3	4.0	1	4	0.8
541-73-1	1,3-Dichlorobenzene	U	4	4.0	1	4	1
106-46-7	1,4-Dichlorobenzene	J	2	4.0	1	4	1.0
95-50-1	1,2-Dichlorobenzene	JB	3	4.0	1	4	0.6
1868-53-7	Dibromofluoromethane		110%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		102%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FIELD DUP

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	17.3			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FIELD DUP

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	19.0			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 16:49
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-7
Client ID: MW-209I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	0.7	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane		3	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone		8	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.6	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	J	0.6	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		3	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran		330	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		16	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	J	0.3	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		2	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	J	0.6	1.0	1	1	0.2
100-41-4	Ethylbenzene		13	1.0	1	1	0.2
1330-20-7	Xylenes (total)		19	1.0	3	3	0.2
	m+p-Xylenes		13	1.0	2	2	0.6
95-47-6	o-Xylene		6	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 16:49
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-7
Client ID: MW-209I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	0.6	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene		1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	J	0.3	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		116%				
17060-07-0	1,2-Dichloroethane-D4		123%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		100%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: MW-209I
Matrix: WATER
SDG Name: GEO-16
Percent Solids: 0.00
Lab Sample ID: SD5805-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	25.6			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-209I

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	27.6			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 17:21
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-9
Client ID: MW-207I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	0.4	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane		6	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	1	1.0	5	5	1
67-64-1	Acetone		14	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.7	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether		1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		3	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		2	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)		3	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran		1000	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		25	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		2	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	J	0.9	1.0	1	1	0.2
100-41-4	Ethylbenzene		6	1.0	1	1	0.2
1330-20-7	Xylenes (total)		12	1.0	3	3	0.2
	m+p-Xylenes		5	1.0	2	2	0.6
95-47-6	o-Xylene		6	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 17:21
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-9
Client ID: MW-207I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	1.0	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	J	0.5	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene		1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		2	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		115%				
17060-07-0	1,2-Dichloroethane-D4		120%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		102%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: MW-207I
Matrix: WATER
SDG Name: GEO-16
Percent Solids: 0.00
Lab Sample ID: SD5805-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	23.7			P	1	8.0	1.86

Bottle ID: D

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-207I

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-010

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	23.4			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 17:52
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-11
Client ID: MW-208I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.4
75-01-4	Vinyl chloride	J	0.9	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane		4	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	J	1	1.0	5	5	1
67-64-1	Acetone		11	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.8	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	J	0.9	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane		3	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		2	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)		3	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran		640	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		18	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	J	0.3	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene		2	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	J	0.8	1.0	1	1	0.2
100-41-4	Ethylbenzene		6	1.0	1	1	0.2
1330-20-7	Xylenes (total)		6	1.0	3	3	0.2
	m+p-Xylenes		2	1.0	2	2	0.6
95-47-6	o-Xylene		3	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 17:52
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-11
Client ID: MW-208I
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	J	0.7	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	J	0.4	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	J	0.6	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene		1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		114%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		97%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-208I

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, TOTAL	22.3			P	1	8.0	1.86

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MW-208I

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-012

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted CRDL	Adjusted MDL
7440-38-2	ARSENIC, DISSOLVED	23.4			P	1	8.0	1.86

Bottle ID: A

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 11:02
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-13
Client ID: TRIP BLANK
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	J	0.6	1.0	2	2	0.4
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.6
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.6
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 23-SEP-2010 11:02
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: SD5805-13
Client ID: TRIP BLANK
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		108%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: DOVER LANDFILL SDG No.: GEO-16

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG82491-LCS	WG82491-1	101	102	96	98	0
02	WG82491-BLANK	WG82491-2	118	122	115	109	0
03	TRIP BLANK	SD5805-13	108	116	102	97	0
04	MW0200I	SD5805-1	107	110	97	95	0
05	FIELD DUP	SD5805-5	115	125	105	106	0
06	MW-209I	SD5805-7	116	123	104	100	0
07	MW-207I	SD5805-9	115	120	101	102	0
08	MW-208I	SD5805-11	114	116	102	97	0
09	WG82551-LCS	WG82551-1	112	116	106	107	0
10	WG82551-LCSD	WG82551-5	122	120	113	112	0
11	WG82551-BLANK	WG82551-2	122	127	120	113	0
12	FIELD DUP	SD5805-5DL	110	118	100	102	0
13	SB-B2	SD5805-3	120	126	109	109	0
14	SB-B2MS	WG82551-3	126	123	114	113	0
15	SB-B2MSD	WG82551-4	121	118	111	105	0
16	WG82811-LCS	WG82811-1	96	98	93	93	0
17	WG82811-LCSD	WG82811-2	98	98	99	97	0
18	WG82811-BLANK	WG82811-3	112	113	106	100	0
19	SB-B2	SD5805-3DL	104	110	99	96	0
20							
21							
22							
23							
24							
25							
26							
27							
28							

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(68-128)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(67-135)
SMC3 (TOL)	= Toluene-D8	(65-128)
SMC4 (BFB)	= P-Bromofluorobenzene	(56-133)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG82491-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: DOVER LANDFILL SDG No.: GEO-16

Lab File ID: F1394 Lab Sample ID: WG82491-2

Date Analyzed: 09/23/10 Time Analyzed: 1030

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG82491-LCS	WG82491-1	F1392	09/23/10	0915
02	TRIP BLANK	SD5805-13	F1395	09/23/10	1102
03	MW0200I	SD5805-1	F1404	09/23/10	1546
04	FIELD DUP	SD5805-5	F1405	09/23/10	1618
05	MW-209I	SD5805-7	F1406	09/23/10	1649
06	MW-207I	SD5805-9	F1407	09/23/10	1721
07	MW-208I	SD5805-11	F1408	09/23/10	1752
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 23-SEP-2010 10:30
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: WG82491-2
Client ID: WG82491-Blank
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.4
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.5
75-00-3	Chloroethane	U	1	1.0	1	1	0.6
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.6
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 23-SEP-2010 10:30
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: WG82491-2
Client ID: WG82491-Blank
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		118%				
17060-07-0	1,2-Dichloroethane-D4		122%				
2037-26-5	Toluene-D8		115%				
460-00-4	P-Bromofluorobenzene		109%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/23/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82491-1
Client ID: WG82491-LCS
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	69		138	29-164
Chloromethane	50	NA	64	*	128	59-123
Vinyl chloride	50	NA	60		120	64-131
Bromomethane	50	NA	57		114	57-135
Chloroethane	50	NA	62		125	53-157
Trichlorofluoromethane	50	NA	56		111	70-149
Diethyl Ether	50	NA	53		106	78-124
Tertiary-butyl alcohol	250	NA	68		27	11-151
1,1-Dichloroethene	50	NA	50		100	88-127
Carbon Disulfide	50	NA	56		111	71-129
Freon-113	50	NA	41		82	73-126
Iodomethane	50	NA	56		112	54-155
Acrolein	250	NA	168		67	62-135
Methylene Chloride	50	NA	57		114	72-129
Acetone	50	NA	57		114	62-172
Isobutyl Alcohol	1000	NA	1020		102	16-147
trans-1,2-Dichloroethene	50	NA	52		104	78-125
Allyl Chloride	50	NA	51		102	78-121
Methyl tert-butyl ether	100	NA	115		115	81-125
Acetonitrile	500	NA	409		82	61-125
Di-isopropyl ether	50	NA	53		105	81-123
Chloroprene	50	NA	49		98	75-128
Methacrylonitrile	500	NA	551		110	78-123
Propionitrile	500	NA	415		83	75-118
1,1-Dichloroethane	50	NA	54		109	76-130
Acrylonitrile	250	NA	264		106	76-120
Ethyl tertiary-butyl ether	50	NA	49		98	85-119
Vinyl Acetate	50	NA	54		109	56-129
cis-1,2-Dichloroethene	50	NA	54		108	85-123
1,2-Dichloroethylene (total)	100	NA	106		106	84-121
Methyl Methacrylate	50	NA	53		105	79-121
2,2-Dichloropropane	50	NA	51		103	70-132
Bromochloromethane	50	NA	52		104	85-117
Chloroform	50	NA	53		106	78-128
Carbon Tetrachloride	50	NA	48		96	87-126
Tetrahydrofuran	50	NA	53		106	74-123
1,1,1-Trichloroethane	50	NA	49		98	77-129
1,1-Dichloropropene	50	NA	47		95	87-118
2-Butanone	50	NA	54		108	71-132
Benzene	50	NA	50		99	86-116
Cyclohexane	50	NA	52		104	71-133
Ethyl Methacrylate	50	NA	53		106	80-125
Tertiary-amyl methyl ether	50	NA	49		98	80-121
1,2-Dichloroethane	50	NA	52		104	81-125
Trichloroethene	50	NA	49		97	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/23/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82491-1
Client ID: WG82491-LCS
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	51		101	85-117
1,2-Dichloropropane	50	NA	50		100	84-118
Bromodichloromethane	50	NA	50		101	85-122
cis-1,3-dichloropropene	50	NA	49		98	83-119
1,4-Dioxane	1000	NA	63	*	6	10-149
2-Chloroethylvinylether	50	NA	44		88	39-135
Toluene	50	NA	48		96	84-118
4-methyl-2-pentanone	50	NA	55		109	83-122
Tetrachloroethene	50	NA	46		92	47-155
trans-1,3-Dichloropropene	50	NA	58		116	85-135
1,1,2-Trichloroethane	50	NA	52		104	84-115
Dibromochloromethane	50	NA	47		93	85-119
1,3-Dichloropropane	50	NA	50		99	80-119
1,2-Dibromoethane	50	NA	50		100	84-116
2-Hexanone	50	NA	50		101	80-124
Chlorobenzene	50	NA	46		93	89-113
Ethylbenzene	50	NA	46		92	88-113
1,1,1,2-Tetrachloroethane	50	NA	46		93	88-118
Xylenes (total)	150	NA	140		93	89-116
m+p-Xylenes	100	NA	93		93	88-116
o-Xylene	50	NA	48		95	90-116
Styrene	50	NA	46		91	88-117
Bromoform	50	NA	50		99	86-117
Isopropylbenzene	50	NA	52		104	96-136
cis-1,4-Dichloro-2-Butene	50	NA	50		99	59-136
trans-1,4-Dichloro-2-Butene	50	NA	52		104	63-132
Bromobenzene	50	NA	45		89	84-113
N-Propylbenzene	50	NA	46		93	83-121
1,1,2,2-Tetrachloroethane	50	NA	48		97	79-121
1,3,5-Trimethylbenzene	50	NA	45		90	80-123
2-Chlorotoluene	50	NA	44		89	81-120
1,2,3-Trichloropropane	50	NA	52		104	77-120
4-Chlorotoluene	50	NA	46		92	81-122
tert-Butylbenzene	50	NA	37	*	74	84-121
Pentachloroethane	50	NA	41		82	19-186
1,2,4-Trimethylbenzene	50	NA	45		90	83-118
P-Isopropyltoluene	50	NA	44		89	88-121
1,3-Dichlorobenzene	50	NA	44		88	86-110
1,4-Dichlorobenzene	50	NA	44		89	86-111
N-Butylbenzene	50	NA	42		84	78-121
sec-Butylbenzene	50	NA	43		86	82-122
1,2-Dichlorobenzene	50	NA	45		89	86-112
1,2-Dibromo-3-Chloropropane	50	NA	52		103	67-124
1,3,5-Trichlorobenzene	50	NA	39		78	77-120
Hexachlorobutadiene	50	NA	34	*	69	73-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/23/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82491-1
Client ID: WG82491-LCS
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82491
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	39	78	76-126
1,2,3-Trimethylbenzene	50	NA	43	86	85-119
Naphthalene	50	NA	44	87	62-126
1,2,3-Trichlorobenzene	50	NA	40	80	70-122
Methyl Acetate	50	NA	59	117	70-132
Methylcyclohexane	50	NA	44	87	73-125
1-Chlorohexane	50	NA	47	93	73-119
Total Alkylbenzenes	350	NA	302	86	85-119

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG82811-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: DOVER LANDFILL SDG No.: GEO-16

Lab File ID: D7777 Lab Sample ID: WG82811-3

Date Analyzed: 09/30/10 Time Analyzed: 1859

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG82811-LCS	WG82811-1	D7773	09/30/10	1655
02	WG82811-LCSD	WG82811-2	D7774	09/30/10	1725
03	SB-B2	SD5805-3DL	D7784	09/30/10	2240
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COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 30-SEP-2010 18:59
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: WG82811-3
Client ID: WG82811-Blank
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: DJP
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.4
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.5
75-00-3	Chloroethane	U	1	1.0	1	1	0.6
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.6
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 30-SEP-2010 18:59
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: WG82811-3
Client ID: WG82811-Blank
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: DJP
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		112%				
17060-07-0	1,2-Dichloroethane-D4		113%				
2037-26-5	Toluene-D8		106%				
460-00-4	P-Bromofluorobenzene		100%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/30/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82811-1 & WG82811-2
Client ID: WG82811-LCS & WG82811-LCSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: DJP
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dichlorodifluoromethane	50	50	NA	38	40	77	81	5	20	29-164
Chloromethane	50	50	NA	40	42	81	84	3	20	59-123
Vinyl chloride	50	50	NA	42	44	85	89	4	20	64-131
Bromomethane	50	50	NA	47	46	94	91	2	20	57-135
Chloroethane	50	50	NA	46	49	91	98	8	20	53-157
Trichlorofluoromethane	50	50	NA	47	49	93	97	4	20	70-149
Diethyl Ether	50	50	NA	51	49	103	98	4	20	78-124
Tertiary-butyl alcohol	250	250	NA	135	119	54	48	12	20	11-151
1,1-Dichloroethene	50	50	NA	48	49	95	99	4	20	88-127
Carbon Disulfide	50	50	NA	42	44	84	88	4	20	71-129
Freon-113	50	50	NA	47	49	95	98	3	20	73-126
Iodomethane	50	50	NA	46	49	92	99	7	20	54-155
Acrolein	250	250	NA	222	210	89	84	6	20	62-135
Methylene Chloride	50	50	NA	48	48	95	95	0.4	20	72-129
Acetone	50	50	NA	56	46	113	92	20	20	62-172
Isobutyl Alcohol	1000	1000	NA	398	336	40	34	17	20	16-147
trans-1,2-Dichloroethene	50	50	NA	46	46	92	93	0.6	20	78-125
Allyl Chloride	50	50	NA	49	52	97	104	7	20	78-121
Methyl tert-butyl ether	100	100	NA	105	101	105	101	4	20	81-125
Acetonitrile	500	500	NA	433	432	87	86	0.2	20	61-125
Di-isopropyl ether	50	50	NA	50	50	100	101	1.0	20	81-123
Chloroprene	50	50	NA	49	51	98	102	4	20	75-128
Methacrylonitrile	500	500	NA	538	510	108	102	5	20	78-123
Propionitrile	500	500	NA	496	466	99	93	6	20	75-118
1,1-Dichloroethane	50	50	NA	48	49	95	98	3	20	76-130
Acrylonitrile	250	250	NA	259	247	104	99	5	20	76-120
Ethyl tertiary-butyl ether	50	50	NA	46	46	93	93	0.2	20	85-119
Vinyl Acetate	50	50	NA	34	38	68	75	10	20	56-129
cis-1,2-Dichloroethene	50	50	NA	50	50	99	101	2	20	85-123
1,2-Dichloroethylene (total)	100	100	NA	96	97	96	97	1	20	84-121
Methyl Methacrylate	50	50	NA	55	53	110	106	3	20	79-121
2,2-Dichloropropane	50	50	NA	51	54	103	107	4	20	70-132
Bromochloromethane	50	50	NA	48	48	97	97	0.2	20	85-117
Chloroform	50	50	NA	48	49	97	98	2	20	78-128
Carbon Tetrachloride	50	50	NA	50	53	101	106	5	20	87-126
Tetrahydrofuran	50	50	NA	48	41	96	82	16	20	74-123
1,1,1-Trichloroethane	50	50	NA	48	50	97	100	3	20	77-129
1,1-Dichloropropene	50	50	NA	48	51	96	102	5	20	87-118
2-Butanone	50	50	NA	54	47	108	94	14	20	71-132
Benzene	50	50	NA	47	48	93	97	4	20	86-116
Cyclohexane	50	50	NA	46	47	92	94	2	20	71-133
Ethyl Methacrylate	50	50	NA	43	41	86	82	5	20	80-125
Tertiary-amyl methyl ether	50	50	NA	45	44	89	88	1	20	80-121
1,2-Dichloroethane	50	50	NA	50	50	101	101	0.4	20	81-125
Trichloroethene	50	50	NA	46	47	92	94	2	20	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/30/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82811-1 & WG82811-2
Client ID: WG82811-LCS & WG82811-LCSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: DJP
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dibromomethane	50	50	NA	52	51	104	102	2	20	85-117
1,2-Dichloropropane	50	50	NA	48	48	95	97	2	20	84-118
Bromodichloromethane	50	50	NA	50	50	100	100	0.4	20	85-122
cis-1,3-dichloropropene	50	50	NA	51	51	102	103	0.8	20	83-119
1,4-Dioxane	1000	1000	NA	434	417	43	42	4	20	10-149
2-Chloroethylvinylether	50	50	NA	24	25	48	50	5	20	39-135
Toluene	50	50	NA	47	48	94	97	3	20	84-118
4-methyl-2-pentanone	50	50	NA	54	47	108	94	14	20	83-122
Tetrachloroethene	50	50	NA	44	45	87	90	2	20	47-155
trans-1,3-Dichloropropene	50	50	NA	52	52	104	103	1.0	20	85-135
1,1,2-Trichloroethane	50	50	NA	50	48	99	97	2	20	84-115
Dibromochloromethane	50	50	NA	52	50	104	101	3	20	85-119
1,3-Dichloropropane	50	50	NA	50	48	100	95	4	20	80-119
1,2-Dibromoethane	50	50	NA	51	50	102	99	2	20	84-116
2-Hexanone	50	50	NA	47	41	94	81	15	20	80-124
Chlorobenzene	50	50	NA	46	47	92	94	2	20	89-113
Ethylbenzene	50	50	NA	45	47	91	94	3	20	88-113
1,1,1,2-Tetrachloroethane	50	50	NA	49	49	97	98	1	20	88-118
Xylenes (total)	150	150	NA	142	146	95	97	3	20	89-116
m+p-Xylenes	100	100	NA	95	97	95	97	3	20	88-116
o-Xylene	50	50	NA	47	49	95	98	3	20	90-116
Styrene	50	50	NA	50	51	100	101	1	20	88-117
Bromoform	50	50	NA	52	50	105	99	5	20	86-117
Isopropylbenzene	50	50	NA	54	57	108	113	4	20	96-136
cis-1,4-Dichloro-2-Butene	50	50	NA	42	44	83	88	6	20	59-136
trans-1,4-Dichloro-2-Butene	50	50	NA	43	45	86	90	4	20	63-132
Bromobenzene	50	50	NA	47	48	94	95	2	20	84-113
N-Propylbenzene	50	50	NA	48	51	96	101	5	20	83-121
1,1,2,2-Tetrachloroethane	50	50	NA	50	48	101	95	6	20	79-121
1,3,5-Trimethylbenzene	50	50	NA	48	50	96	100	4	20	80-123
2-Chlorotoluene	50	50	NA	46	48	92	96	4	20	81-120
1,2,3-Trichloropropane	50	50	NA	49	47	98	93	5	20	77-120
4-Chlorotoluene	50	50	NA	47	49	95	98	4	20	81-122
tert-Butylbenzene	50	50	NA	49	51	98	103	5	20	84-121
Pentachloroethane	50	50	NA	46	48	91	96	4	20	19-186
1,2,4-Trimethylbenzene	50	50	NA	49	51	98	102	4	20	83-118
P-Isopropyltoluene	50	50	NA	51	53	102	107	4	20	88-121
1,3-Dichlorobenzene	50	50	NA	47	48	93	96	3	20	86-110
1,4-Dichlorobenzene	50	50	NA	46	47	91	93	2	20	86-111
N-Butylbenzene	50	50	NA	49	51	97	102	4	20	78-121
sec-Butylbenzene	50	50	NA	48	50	97	101	4	20	82-122
1,2-Dichlorobenzene	50	50	NA	47	48	94	96	1	20	86-112
1,2-Dibromo-3-Chloropropane	50	50	NA	49	40	98	79	* 21	20	67-124
1,3,5-Trichlorobenzene	50	50	NA	46	48	93	96	3	20	77-120
Hexachlorobutadiene	50	50	NA	51	51	102	103	0.2	20	73-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/30/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82811-1 & WG82811-2
Client ID: WG82811-LCS & WG82811-LCSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: DJP
Analysis Method: SW846 8260B
Lab Prep Batch: WG82811
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2,4-Trichlorobenzene	50	50	NA	48	46	96	93	4	20	76-126
1,2,3-Trimethylbenzene	50	50	NA	48	51	96	102	6	20	85-119
Naphthalene	50	50	NA	51	46	101	93	9	20	62-126
1,2,3-Trichlorobenzene	50	50	NA	44	40	88	81	8	20	70-122
Methyl Acetate	50	50	NA	56	54	112	107	4	20	70-132
Methylcyclohexane	50	50	NA	48	50	96	100	4	20	73-125
1-Chlorohexane	50	50	NA	47	47	93	94	1	20	73-119
Total Alkylbenzenes	350	350	NA	342	358	98	102	4	20	85-119

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG82551-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: DOVER LANDFILL SDG No.: GEO-16

Lab File ID: F1420 Lab Sample ID: WG82551-2

Date Analyzed: 09/24/10 Time Analyzed: 1044

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG82551-LCS	WG82551-1	F1418	09/24/10	0941
02	WG82551-LCSD	WG82551-5	F1419	09/24/10	1013
03	FIELD DUP	SD5805-5DL	F1423	09/24/10	1227
04	SB-B2	SD5805-3	F1436	09/24/10	1915
05	SB-B2MS	WG82551-3	F1437	09/24/10	1947
06	SB-B2MSD	WG82551-4	F1438	09/24/10	2018
07					
08					
09					
10					
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29					
30					

COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 24-SEP-2010 10:44
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: WG82551-2
Client ID: WG82551-Blank
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.4
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.5
75-00-3	Chloroethane	U	1	1.0	1	1	0.6
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	1
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.2
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.3
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.2
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.6
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.2
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 24-SEP-2010 10:44
Report Date: 10/04/2010
Matrix: WATER
% Solids: NA

Lab ID: WG82551-2
Client ID: WG82551-Blank
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.2
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	J	0.2	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		122%				
17060-07-0	1,2-Dichloroethane-D4		127%				
2037-26-5	Toluene-D8		120%				
460-00-4	P-Bromofluorobenzene		113%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/24/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82551-1 & WG82551-5
Client ID: WG82551-LCS & WG82551-LCSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dichlorodifluoromethane	50	50	NA	65	63	131	126	4	20	29-164
Chloromethane	50	50	NA	62	60	* 125	121	3	20	59-123
Vinyl chloride	50	50	NA	60	58	121	116	4	20	64-131
Bromomethane	50	50	NA	58	57	117	113	3	20	57-135
Chloroethane	50	50	NA	61	60	122	121	0.7	20	53-157
Trichlorofluoromethane	50	50	NA	57	55	113	110	3	20	70-149
Diethyl Ether	50	50	NA	58	56	116	112	3	20	78-124
Tertiary-butyl alcohol	250	250	NA	78	73	31	29	8	20	11-151
1,1-Dichloroethene	50	50	NA	50	49	101	98	3	20	88-127
Carbon Disulfide	50	50	NA	56	55	111	111	0.4	20	71-129
Freon-113	50	50	NA	49	50	98	99	1	20	73-126
Iodomethane	50	50	NA	61	61	122	123	1.0	20	54-155
Acrolein	250	250	NA	156	145	62	* 58	7	20	62-135
Methylene Chloride	50	50	NA	50	50	100	100	0.2	20	72-129
Acetone	50	50	NA	64	56	127	113	12	20	62-172
Isobutyl Alcohol	1000	1000	NA	1090	1070	109	107	2	20	16-147
trans-1,2-Dichloroethene	50	50	NA	46	46	93	92	1	20	78-125
Allyl Chloride	50	50	NA	54	50	108	100	8	20	78-121
Methyl tert-butyl ether	100	100	NA	108	108	108	108	0.0	20	81-125
Acetonitrile	500	500	NA	530	491	106	98	8	20	61-125
Di-isopropyl ether	50	50	NA	56	57	112	114	1	20	81-123
Chloroprene	50	50	NA	54	53	107	107	0.7	20	75-128
Methacrylonitrile	500	500	NA	607	586	121	117	4	20	78-123
Propionitrile	500	500	NA	554	520	111	104	6	20	75-118
1,1-Dichloroethane	50	50	NA	52	52	104	104	0.0	20	76-130
Acrylonitrile	250	250	NA	308	290	* 123	116	6	20	76-120
Ethyl tertiary-butyl ether	50	50	NA	55	55	109	110	0.4	20	85-119
Vinyl Acetate	50	50	NA	54	52	107	103	4	20	56-129
cis-1,2-Dichloroethene	50	50	NA	53	53	106	106	0.6	20	85-123
1,2-Dichloroethylene (total)	100	100	NA	100	99	100	99	0.9	20	84-121
Methyl Methacrylate	50	50	NA	55	52	110	105	5	20	79-121
2,2-Dichloropropane	50	50	NA	50	48	100	97	4	20	70-132
Bromochloromethane	50	50	NA	51	51	103	101	2	20	85-117
Chloroform	50	50	NA	52	52	104	104	0.2	20	78-128
Carbon Tetrachloride	50	50	NA	47	46	94	92	2	20	87-126
Tetrahydrofuran	50	50	NA	59	56	117	112	4	20	74-123
1,1,1-Trichloroethane	50	50	NA	48	47	97	94	2	20	77-129
1,1-Dichloropropene	50	50	NA	47	45	93	90	4	20	87-118
2-Butanone	50	50	NA	59	55	118	109	8	20	71-132
Benzene	50	50	NA	47	46	95	93	2	20	86-116
Cyclohexane	50	50	NA	53	50	105	100	5	20	71-133
Ethyl Methacrylate	50	50	NA	55	53	109	107	2	20	80-125
Tertiary-amyl methyl ether	50	50	NA	53	52	107	105	2	20	80-121
1,2-Dichloroethane	50	50	NA	51	47	102	94	8	20	81-125
Trichloroethene	50	50	NA	48	46	96	92	5	20	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/24/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82551-1 & WG82551-5
Client ID: WG82551-LCS & WG82551-LCSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dibromomethane	50	50	NA	50	48	101	96	5	20	85-117
1,2-Dichloropropane	50	50	NA	50	47	99	94	5	20	84-118
Bromodichloromethane	50	50	NA	48	47	96	95	1	20	85-122
cis-1,3-dichloropropene	50	50	NA	50	48	100	96	4	20	83-119
1,4-Dioxane	1000	1000	NA	80	93	* 8	* 9	15	20	10-149
2-Chloroethylvinylether	50	50	NA	41	39	82	78	5	20	39-135
Toluene	50	50	NA	46	45	93	91	2	20	84-118
4-methyl-2-pentanone	50	50	NA	56	53	112	106	5	20	83-122
Tetrachloroethene	50	50	NA	48	45	97	90	8	20	47-155
trans-1,3-Dichloropropene	50	50	NA	55	53	109	106	3	20	85-135
1,1,2-Trichloroethane	50	50	NA	49	49	98	99	0.2	20	84-115
Dibromochloromethane	50	50	NA	50	48	100	95	4	20	85-119
1,3-Dichloropropane	50	50	NA	53	51	106	101	4	20	80-119
1,2-Dibromoethane	50	50	NA	50	48	100	95	5	20	84-116
2-Hexanone	50	50	NA	58	52	117	105	10	20	80-124
Chlorobenzene	50	50	NA	48	47	97	94	3	20	89-113
Ethylbenzene	50	50	NA	47	46	93	92	2	20	88-113
1,1,1,2-Tetrachloroethane	50	50	NA	49	46	97	92	5	20	88-118
Xylenes (total)	150	150	NA	142	137	95	91	4	20	89-116
m+p-Xylenes	100	100	NA	95	92	95	92	3	20	88-116
o-Xylene	50	50	NA	47	45	95	90	5	20	90-116
Styrene	50	50	NA	50	47	100	93	7	20	88-117
Bromoform	50	50	NA	52	49	105	99	6	20	86-117
Isopropylbenzene	50	50	NA	54	55	107	111	3	20	96-136
cis-1,4-Dichloro-2-Butene	50	50	NA	56	56	112	113	0.9	20	59-136
trans-1,4-Dichloro-2-Butene	50	50	NA	57	59	114	117	3	20	63-132
Bromobenzene	50	50	NA	46	47	92	94	2	20	84-113
N-Propylbenzene	50	50	NA	49	48	97	97	0.6	20	83-121
1,1,2,2-Tetrachloroethane	50	50	NA	50	51	101	102	0.8	20	79-121
1,3,5-Trimethylbenzene	50	50	NA	46	49	92	97	5	20	80-123
2-Chlorotoluene	50	50	NA	44	48	89	97	9	20	81-120
1,2,3-Trichloropropane	50	50	NA	53	55	106	110	4	20	77-120
4-Chlorotoluene	50	50	NA	48	48	97	97	0.0	20	81-122
tert-Butylbenzene	50	50	NA	47	47	94	95	0.6	20	84-121
Pentachloroethane	50	50	NA	48	39	95	79	19	20	19-186
1,2,4-Trimethylbenzene	50	50	NA	46	47	93	94	1	20	83-118
P-Isopropyltoluene	50	50	NA	45	46	90	92	3	20	88-121
1,3-Dichlorobenzene	50	50	NA	44	45	88	90	2	20	86-110
1,4-Dichlorobenzene	50	50	NA	45	46	90	91	1	20	86-111
N-Butylbenzene	50	50	NA	43	42	86	85	2	20	78-121
sec-Butylbenzene	50	50	NA	44	46	87	92	5	20	82-122
1,2-Dichlorobenzene	50	50	NA	45	47	90	94	4	20	86-112
1,2-Dibromo-3-Chloropropane	50	50	NA	52	60	104	119	13	20	67-124
1,3,5-Trichlorobenzene	50	50	NA	41	43	82	87	6	20	77-120
Hexachlorobutadiene	50	50	NA	36	36	* 72	* 72	0.6	20	73-113

FORM III VOA-1
F1418.D & F1419.D

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Dover Landfill
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/24/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82551-1 & WG82551-5
Client ID: WG82551-LCS & WG82551-LCSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2,4-Trichlorobenzene	50	50	NA	40	41	80	83	3	20	76-126
1,2,3-Trimethylbenzene	50	50	NA	48	50	97	100	4	20	85-119
Naphthalene	50	50	NA	46	46	91	92	1	20	62-126
1,2,3-Trichlorobenzene	50	50	NA	40	42	80	84	4	20	70-122
Methyl Acetate	50	50	NA	62	59	123	118	5	20	70-132
Methylcyclohexane	50	50	NA	48	48	97	96	0.8	20	73-125
1-Chlorohexane	50	50	NA	46	44	91	88	3	20	73-119
Total Alkylbenzenes	350	350	NA	320	326	91	93	2	20	85-119

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 09/24/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82551-3 & WG82551-4
Client ID: SB-B2MS & SB-B2MSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dichlorodifluoromethane	50	50	0.00	56	54	113	107	5	20	29-164
Chloromethane	50	50	0.00	59	55	118	110	7	20	59-123
Vinyl chloride	50	50	0.38	60	58	118	115	3	20	64-131
Bromomethane	50	50	0.00	35	43	70	86	20	20	57-135
Chloroethane	50	50	2.8	65	60	125	115	8	20	53-157
Trichlorofluoromethane	50	50	0.00	53	49	106	97	8	20	70-149
1,1-Dichloroethene	50	50	0.00	50	47	100	94	6	20	88-127
Carbon Disulfide	50	50	0.00	56	53	111	106	5	20	71-129
Methylene Chloride	50	50	0.00	52	50	104	100	5	20	72-129
Acetone	50	50	14	61	68	94	107	10	20	62-172
trans-1,2-Dichloroethene	50	50	0.73	49	46	96	92	5	20	78-125
Methyl tert-butyl ether	100	100	1.2	111	112	110	111	0.9	20	81-125
1,1-Dichloroethane	50	50	2.0	55	53	105	102	3	20	76-130
Vinyl Acetate	50	50	0.00	52	50	104	101	3	20	56-129
cis-1,2-Dichloroethene	50	50	0.92	56	53	109	104	4	20	85-123
1,2-Dichloroethylene (total)	100	100	1.6	104	100	102	98	4	20	84-121
Chloroform	50	50	0.00	54	50	107	100	6	20	78-128
Carbon Tetrachloride	50	50	0.00	47	45	94	91	4	20	87-126
Tetrahydrofuran	50	50	1650	1940	2080	* 580	* 860	7	20	74-123
1,1,1-Trichloroethane	50	50	0.00	49	47	99	94	5	20	77-129
2-Butanone	50	50	0.00	59	64	118	128	8	20	71-132
Benzene	50	50	28	78	75	101	95	4	20	86-116
1,2-Dichloroethane	50	50	0.00	50	48	99	95	4	20	81-125
Trichloroethene	50	50	0.00	46	44	92	87	5	20	79-121
1,2-Dichloropropane	50	50	0.00	50	48	101	96	5	20	84-118
Bromodichloromethane	50	50	0.00	48	47	97	93	4	20	85-122
cis-1,3-dichloropropene	50	50	0.00	47	45	94	90	5	20	83-119
Toluene	50	50	2.5	49	47	93	89	4	20	84-118
4-methyl-2-pentanone	50	50	0.00	56	58	112	115	3	20	83-122
Tetrachloroethene	50	50	0.00	39	41	79	81	4	20	47-155
trans-1,3-Dichloropropene	50	50	0.00	54	51	108	102	6	20	85-135
1,1,2-Trichloroethane	50	50	0.00	50	48	99	96	3	20	84-115
Dibromochloromethane	50	50	0.00	46	47	91	94	3	20	85-119
1,2-Dibromoethane	50	50	0.00	50	47	99	95	4	20	84-116
2-Hexanone	50	50	0.00	48	54	97	108	11	20	80-124
Chlorobenzene	50	50	3.0	49	48	92	89	2	20	89-113
Ethylbenzene	50	50	18	64	65	92	95	2	20	88-113
Xylenes (total)	150	150	56	194	196	92	93	1	20	89-116
m+p-Xylenes	100	100	35	124	129	89	94	4	20	88-116
o-Xylene	50	50	21	70	67	97	91	4	20	90-116
Styrene	50	50	0.00	47	46	93	92	1	20	88-117
Bromoform	50	50	0.00	47	48	94	96	2	20	86-117
1,1,2,2-Tetrachloroethane	50	50	0.00	52	55	105	109	4	20	79-121
1,3,5-Trimethylbenzene	50	50	2.8	47	48	89	90	0.8	20	80-123
1,2,4-Trimethylbenzene	50	50	5.3	50	49	90	88	1	20	83-118

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Geo Insight, Inc.
Project: Dover Landfill
PO No:
Sample Date: 09/17/10
Received Date: 09/22/10
Extraction Date:
Analysis Date: 09/24/10
Report Date: 10/04/2010
Matrix: WATER

Lab ID: WG82551-3 & WG82551-4
Client ID: SB-B2MS & SB-B2MSD
SDG: GEO-16
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG82551
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,3-Dichlorobenzene	50	50	0.00	43	44	86	88	2	20	86-110
1,4-Dichlorobenzene	50	50	1.4	46	44	89	86	4	20	86-111
1,2-Dichlorobenzene	50	50	3.5	48	47	88	88	0.4	20	86-112

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWAJ01ICW1

Matrix: WATER **SDG Name:** GEO-16

QC Batch ID: AJ01ICW1

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	-2.567	J

FORM III (Part 2) - IN

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LC2WAJ01ICW1

Matrix: WATER **SDG Name:** GEO-16

QC Batch ID: AJ01ICW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100.0	97.45	97.5	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWAJ01ICW1

Matrix: WATER **SDG Name:** GEO-16

QC Batch ID: AJ01ICW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100.0	96.30	96.3	80	120

7D

LABORATORY CONTROL SAMPLE DUPLICATES

Lab Name: Katahdin Analytical Services

Matrix: WATER **SDG Name:** GEO-16

QC Batch ID: AJ01ICW1 **Lab Sample ID:** LCSWAJ01ICW1

Concentration Units: ug/L

Analyte	Control Limit (%)	LCS Result	LCS Dup. Result	RPD(%)	Q
ARSENIC	20.0	96.30	97.45	1.2	

FORM VIID - IN

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Client Field ID: SB-B2S

Matrix: WATER

SDG Name: GEO-16

Percent Solids: 0.00

Lab Sample ID: SD5805-003P

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, TOTAL	123.4000		17.9500		100	105.5		75	125	P

Comments:

FORM V (Part 1) - IN

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** SB-B2S

Matrix: WATER | **SDG Name:** GEO-16

Percent Solids: 0.00 | **Lab Sample ID:** SD5805-003S

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, TOTAL	126.0000		17.9500		100	108.1		75	125	P

Comments:

FORM V (Part 1) - IN

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** SB-B2S

Matrix: WATER | **SDG Name:** GEO-16

Percent Solids: 0.00 | **Lab Sample ID:** SD5805-004P

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, DISSOLVED	123.4000		18.5500		100	104.9		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** SB-B2S

Matrix: WATER | **SDG Name:** GEO-16

Percent Solids: 0.00 | **Lab Sample ID:** SD5805-004S

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, DISSOLVED	124.3000		18.5500		100	105.8		75	125	P

Comments:

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** SB-B2

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-003

Concentration Units : ug/L

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
ARSENIC, TOTAL		126.0000		123.4000		2.1		P

Comments:

FORM VD - IN

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** SB-B2

Matrix: WATER **SDG Name:** GEO-16

Percent Solids: 0.00 **Lab Sample ID:** SD5805-004

Concentration Units : ug/L

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
ARSENIC, DISSOLVED		124.3000		123.4000		0.7		P

Comments:

FORM VD - IN

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services **Client Field ID:** SB-B2L

Matrix: WATER **SDG Name:** GEO-16

Lab Sample ID: SD5805-003L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, TOTAL	17.95		15.28	J	14.9		P

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services **Client Field ID:** SB-B2L

Matrix: WATER **SDG Name:** GEO-16

Lab Sample ID: SD5805-004L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ARSENIC, DISSOLVED	18.55		14.89	J	19.7		P

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	Geo Insight	KAS PM:	SMB	Sampled By:	Client
Project:		KIMS Entry By:	DD	Delivered By:	Fed Ex
KAS Work Order#:	SD5805	KIMS Review By:		Received By:	DD
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	9/22/10 0800

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 2.1
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: GeoInsight, Inc | Contact: Kristin Zeman | Phone #: (978) 679-1600 | Fax #: (978) 679-1601

Address: 1 Monarch Drive, Suite 201 | City: Littleton | State: MA | Zip Code: 01460

Purchase Order # | Proj. Name / No.: Dover / 2009 | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign): Shauna Little / Kristin Zeman | Copies To:

LAB USE ONLY | WORK ORDER #: | KATAHDIN PROJECT NUMBER: SD5805

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs + THF 8260 B (Filt. ☐Y ☒N)	Total As 6010 (Filt. ☐Y ☒N)	Dissolved As 6010 (Filt. ☒Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	MW-200 I	9/17/10 / 11:05	GW	5	✓	✓	✓							
	SB-B2	9/17/10 / 10:45	GW	5	✓	✓	✓							
	Field Dup	9/17/10 / 12:15	GW	5	✓	✓	✓							
	~~MS/MSD~~ SB-B2-MSD	9/17/10 / 11:00	GW	5	✓	✓	✓							
	MW-209 I	9/17/10 / 12:35	GW	5	✓	✓	✓							
	MW-207 I	9/17/10 / 15:38	GW	5	✓	✓	✓							
	MW-208 I	9/17/10 / 15:25	GW	5	✓	✓	✓							
	Trip Blank	— / —		2	✓									
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS
Dissolved As samples were field filtered
SDG - GEO - 16 9-22-10 0800

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	9/21/10 12:00				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

AS-COC1

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Sep. 30, 2010
01:33 PM

Login Number: SD5805

Account: GEOI001
Geo Insight, Inc.

Project: GEOA8260
New Special List

NoWeb

Quote/Incoming: GEODOV001

Primary Report Address:
Joel Trifilo
Geo Insight, Inc.
1 Monarch Drive
Suite 201
Littleton,MA 01460
jjtrifilo@geoinc.com

Primary Invoice Address:
Accounts Payable
Geo Insight, Inc.
186 Granite Street
Suite A 3rd Floor
Manchester,NH 03101

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Report to MDL, Run LCS/LCS Dup, Include Narrative, Include Form II, Use package Generator for Metals Report
CHECK NO.	:	
CLIENT PO#	:	
COOLER TEMPERATURE	:	2.1
DELIVERY SERVICES	:	Fed Ex
EDD FORMAT	:	WEST-XLS-QC
LOGIN INITIALS	:	DD
PM	:	SMB
PROJECT NAME	:	Dover Landfill
QC LEVEL	:	II+
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Report to MDL, Run LCS/LCS Dup, Include Narrative, Include Form II, Use package Generator for Metals Report
SDG ID	:	GEO-16
SDG STATUS	:	Begin/End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SD5805-1	MW-200I	17-SEP-10 11:05	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	01-OCT-10	40mL Vial+HCl		

SD5805-2	MW-200I	17-SEP-10 11:05	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	16-MAR-11	250mL Plastic+HNO3		

SD5805-3	SB-B2	17-SEP-10 10:45	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		MS/MSD
Aqueous	S	SW6010-ARSENIC	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	01-OCT-10	40mL Vial+HCl		

SD5805-4	SB-B2	17-SEP-10 10:45	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		MS/MSD
Aqueous	S	SW6010-ARSENIC-DIS	16-MAR-11	250mL Plastic+HNO3		

SD5805-5	FIELD DUP	17-SEP-10 12:15	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	01-OCT-10	40mL Vial+HCl		

SD5805-6	FIELD DUP	17-SEP-10 12:15	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	16-MAR-11	250mL Plastic+HNO3		

SD5805-7	MW-209I	17-SEP-10 12:35	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	01-OCT-10	40mL Vial+HCl		

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Sep. 30, 2010
01:33 PM

Login Number: SD5805

Quote/Incoming: GEODOV001

Account: GEOI001 NoWeb
Geo Insight, Inc.

Project: GEOA8260
New Special List

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SD5805-8	MW-209I	17-SEP-10 12:35	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	16-MAR-11	250mL Plastic+HNO3		

SD5805-9	MW-207I	17-SEP-10 15:38	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	01-OCT-10	40mL Vial+HCl		

SD5805-10	MW-207I	17-SEP-10 15:38	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	16-MAR-11	250mL Plastic+HNO3		

SD5805-11	MW-208I	17-SEP-10 15:25	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW8260-S	01-OCT-10	40mL Vial+HCl		

SD5805-12	MW-208I	17-SEP-10 15:25	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	16-MAR-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC-DIS	16-MAR-11	250mL Plastic+HNO3		

SD5805-13	TRIP BLANK	17-SEP-10 00:00	22-SEP-10			06-OCT-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	01-OCT-10	40mL Vial+HCl		

***Total Samples:* 13** ***Total Analyses:* 31**

APPENDIX B

PERFORMANCE MONITORING WELL ANALYTICAL DATA TABLES

SUMMARY OF GROUND WATER ANALYTICAL DATA
SB-B2(I)
SCREENED INTERVAL - 34 - 44 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	May-05	Oct-05	Jun-06*	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10
benzene	5	6	6	6	8(J)	8(J)	<25	8	11	11	13	15	14	14	33	19	19	20	21	20	26	23	23	26	28	22	24	22	21	25	25	20	27	31	22	25	22	13	27	29	28	30
ethylbenzene	---	6	6	7	8(J)	9(J)	<25	9	12	13	16	19	19	18	29	24	25	29	22	27	28	25(B)	25	28	<25	24	26	24	22	25	25	10	21	25	16	13	14	12	24	15	18	23
toluene	1,000	2	2	2	<17	<10	<25	<8	4	4	5(B)	6	5	5	<10	6	6	6	6	6	7	6	6	7(J)	<25	5	5	5	5	5	5	3	4	5	4	3	3	2	4	2	2	3
xylene	---	8	8	10	<17	13	<25	15	21	23	28	39	37	39	<10	55	60	76	65	72	83	73(B)	77	83	<25	70	80	70	70	82	81	30	59	76	55	33	32	35	71	48	56	76
PCE	5	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	0.7(J)	<1	0.5(J)	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	4(B)	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	0.5(J)	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	0.3(J)	<1	<1	<1	<1	<1
1,2-DCE	70	1.3	0.9	1.2	<17	<10	<25	<8	1.6(J)	1	2	1.8(J)	2(J)	0.7(J)	<10	1.9(J)	2	1.8	1	1(J)	1	1	2	<10	<25	1	2	<5	1.8	2	1.9	1.9(J)	2	2	2(J)	0.8(J)	1(J)	0.9(J)	2(J)	3	2(J)	2(J)
vinyl chloride	2	4	3	4	<17	<10	<25	<8	2	4	4	3	3	<1	<10	3	3	2	2	2	4	3	3	3(J)	<25	2	2	<5	<1	2	0.9(J)	<1	0.7(J)	0.9(J)	<2	0.5(J)	<2	<2	1(J)	4	0.4(J)	<2
acetone	700	---	<5	3(J)	83(R)	50(R)	<130	<42	9	5	<5	17	9	7(B)	35(J)	4(J)	4(J)	<5	6(B)	9	38	28	8	<10	<25	17	27	<25	7	29	23	15	14	16	24	7	7	16	22	18	14	<5
tetrahydrofuran	154	240	310(E)	360	280(J)	430(J)	510	590	700(E)	750	<5	580	820(E)	1,100	940	1,900	1500(E)	1,400	1,900	1,500	2,400	2,100	1,200	1,700	2,100	2,100	2,100	1,500(B)	680	2,000	1,900	2,100	2,000	1,500	1,600	1,100	1,200	1,200	1,900	1,500	1,600	1,500
2-butanone	200	---	<5	<5	83(R)	50(R)	<130	<42	<5	<5	<5	<5	7	5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<10	<25	<5	<5	<25	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	<5	17	17	<5
4-methyl 2-pentanone	350	---	11	13(B)	83(J)	<50	<130	5(J)	3(J)	2(J)	<5	3(J)	4(J)	<5	<50	3(J)	<5	<5	<5	<5	4(J)	<5	<5	<10	<25	3(J)	6	<25	<5	<5	<5	3(J)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	<1	<1	<1	<48	<10	44(B)	<8	2(B)	2	3(B)	5(B)	6(B)	2(B)	72(B)	2(B)	2	1(B)	0.9(JB)	2(B)	<1	0.7(J)	13(B)	2(J)	<25	<1	<2	9	<5	17(JB)	0.8(J)	1(J)	1(J)	2(JB)	1(JB)	1(JB)	<5	1(J)	<5	3(J)	3(J)	3(J)
1,1,1-TCA	---	<0.5	<0.5	<0.5	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	0.9	0.8	0.9	<17	<10	<25	<8	2	2	2	2	2	<1	<10	2	2	2	2	2	3	3	3	3(J)	<25	2	3	2(J)	2	3	2	2	3	3	2	2	2	1	2	2	2	2
1,1-DCE	7	<1.3	<1.3	<1.3	<17	<10	<25	<8	<1	<1	<1	<1	0.6(J)	<1	<10	<1	<1	<1	<1	<1	0.6(J)	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	1	0.8	0.7	<17	<10	<25	<8	<1	1	<1	1	1	1	<10	2	1	2	2	2	2	2	<1	<10	<25	1	<1	2(J)	1(J)	2	2	1	<1	1	0.9(J)	0.9(J)	1	<1	1	0.8(J)	0.8(J)	0.9(J)
bromomethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<0.5	<0.5	<0.5	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	0.5(J)	0.6(J)	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<0.7	<0.7	<0.7	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	---	<5	2(J)	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	0.6(J)	<1	<1	1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	<0.4	1	1	<17	<10	<25	<8	2	2	<1	2	2	2	<10	4	3	2	2	<1	4	3	<1	3(J)	<25	2	2	<5	2	3	2	2	3	4	2(J)	3	<2	3	2	0.9(J)	3	2(J)
chlorobenzene	---	0.8	0.8	0.9	<17	<10	<25	<8	1	1	<1	2	2	2	<10	2	2	2	2	2	3	<1	1	3(J)	<25	2	3	<5	<1	3	3	2	3	3	2	2	<1	2	3	3	3	3
1,2-dichloropropane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<0.2	<0.2	<0.2	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<83	<50	<130	<42	<5	16	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<10	<25	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11.7	11.6	13.4	13.2	10.8	13.4	12.2	14.3	15.5	16.8	15.7	3.7(B)	16.8	14.7	17.4	16.5	14.4	14.6	16.5	16.6	17.3	13.8	16.8	21.3	18.6	17.9
arsenic (total)	---	---	8.9(B)	6.8(B)	<5.20	7.40	10.6	8.5(B)	2	3.5(B)	9	10.6	9.40	12	<2.08	10	10.9	11.9	16.6	12.9	11.4	14.2	14.3	8.3(B)	13.7	17.8	14.5	14.9	17.9	16.5	17.3	16.4	15.5	17.0	17.1	18.0	18.8	14.0	17.1	20.8	18.0	17.5
calcium	---	56,400	50,300	61,600	71,300	66,400	73,400	66,100	28,200	54,200	83,400	87,400	82,600	92,500	27,400	94,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170,000	166,000	162,000	159,000	153,000	158,000	146,000	132,000	121,000	136,000	126,000	34,800	109,000	106,000	103,000	101,000	63,600	72,200	62,200	---	---	---	---	---	---	---
iron (total)	---	143,000	107,000	130,000	138,000	131,000	160,000	126,000	69,900	160,000	170,000	170,000	155,000	171,000	66,100	172,000	167,000	170,000	154,000	159,000	159,000	161,000	145,000	87,300	113,000	135,000	124,000	122,000	111,000	109,000	104,000	108,000	62,000	75,600	63,400	---	---	---	---	---	---	---
magnesium	---	24,100	17,500	19,200	22,500	21,000	24,300	22,200	7,680	4,020	30,700	32,100	32,000	34,700	7,620	37,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,560	1,540	1,400	1,360	1,210	1,210	1,030	920	814	803	693	662	550	510	453	447	258	276	---	---	---	---	---	---	---	---
manganese (total)	---	2,690	2,090	2,270	2,520	2,300	2,290	1,980	883	98.3	2,230	2,220	1,990	2,020	889	1,760	1,520	1,550	1,340	1,360	1,250	1,220	1,020	624	758	790	690	620	562	521	463	484	254	290	---	---	---	---	---	---	---	---
potassium	---	11,400(E)	4,600(B)	3,830	3,960(B)	4,350	5,020	5,390	1,840(B)	12,100	6,400	7,040	6,260	7,150	2,100(B)	8,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	91,700	87,400	118,000	148,000	142,000	183,000	187,000	28,600	238,000	288,000	299,000	327,000	337,000	47,600	370,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	---	6.05	6.21	6.06	6	6.45	5.85	6.62	6.07	6.07	6.13	6.13	5.94	6.07	5.87	6.10	5.92	5.96	5.97	5.98	5.38	6.07	5.48	5.85	5.86	6	5.62	6.26	5.99	5.93	6.18	5.98	5.99	6.08	5.92	6.44	6.09	---	6.16	6.24
SC (mS/cm)	---	---	---	1.33	1.80	1.92	2.11	2.03	2.33	2.70	2.62	2.81	2.85	3.12	2.99	3.50	3.27	3.33	3.55	3.37	3.62	4.42	3.26	3.07	3.74	3.83	3.65	3.79	3.802	4.163	3.916	4.978	3.924	3.867	4.24	4.11	3.82	2.93	4.06	3.68	2.662	2.215
Turb (NTU)	---	---	---	7	6	45	3	0	22	2	5	0	1	0	0	63	5	20	95	4.40	11.8	8.19	1.90	7	5	20.3	4.97	5.42	3.3	9.42	0.85	1.48	4.89	0.14	5.82	---	0.0	25.4	87.7	8.69	3.6	3.9
DO (mg/l)	---	---	---	0.20	0.04	0.01	0.05	2.88	0.27	0.51	0.36	0.16	0.82	0.21	0.47	0	0.70	0	0.75	3.26	0.91	3.49	0.97	0.45	0.62	0.4	0.93	0.9	0.4	1.59	0.39	0.3	0.96	0.57	0.20	0.14	0.26	0.17	0.17	0.09	0.28	0.47
Eh (mv)	---	---	---	-64	-39	-40	-85	-254	-56.8	-48	-15	-32.5	-35	-2	-24	-51	42.3	-34	-34	-60.1	0.91	-153	-28.2	-15	3.60	-85.5	-18.5	-40.2	-13.5	-91.5	-70.2	-189.2	-54.1	-30.2	19	-4	-56	-67	-57	-65	-53.5	-4.3
Temp (°C)	---	---	---	9.4	8.6	9.4	9.3	7.8	10	8.1	8.9	7.7	8.5	9.4	10	9	10	8.1	10	9	10	9.1	11	9.2	9.7	7.4	9.1	10.05	15.11	10.18	9.86	11.93	10.88	11.92	16.58	13.02	10.93	8.11	9.35	11.57	12.06	5.65
Water Level Elevation	149.33	147.28	144.86	145.11	147.26	146.29	147.01	147.59	146.43	148.16	147.42	146.93	147.22	146.55	146.55	147.08	146.95	147.04	147.18	144.66	147.00	146.93	147.54	147.28	147.58	147.53	147.66	147.07	148.02	147.43	147.46	146.57	147.33	147.37	-1.86	-2.74	146.38	-2.34	-1.30	-3.34	-4.59	-2.06

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-200(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Nov-07	Nov-08	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10
benzene	5	**4**	**6**	**6**	**6**	**4**	**6**	**7**	**7**	**7**	**8**
ethylbenzene	---	**3**	**5**	**5**	**5**	**3**	**6**	**5**	**7**	**6**	**7**
toluene	1,000	**0.8(J)**	**1**	**1**	**1**	**0.9(J)**	**1**	**2**	**2**	**1**	**2**
xylenes (total)	---	**2(J)**	**4**	**6**	**5**	**4**	**8**	**6**	**9**	**7**	**9**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-DCE	70	**0.5(J)**	<1	**0.7(J)**	**0.7(J)**	**0.5(J)**	**0.7(J)**	**0.8(J)**	**0.9(J)**	**0.8(J)**	**1(J)**
vinyl chloride	2	**1(J)**	**1**	**1(J)**	**1(J)**	**0.9(J)**	**1(J)**	**1(J)**	**4**	**2(J)**	**1(J)**
acetone	700	<5	<5	**7**	**3(J)**	**6**	**5(J)**	**6**	**10**	**5(J)**	**5**
tetrahydrofuran	154	**5**	**26**	**57**	**58**	**55**	**100**	**190**	**190**	**140**	**210**
2-butanone	200	<5	<5	**2(J)**	**3(J)**	**130**	<5	**3(J)**	**15**	<5	<5
4-methyl 2-pentanone	350	**7**	<5	<5	<5	<5	<5	<5	<5	**2(J)**	<5
methylene chloride	5	**0.7(J)**	<5	**2(JB)**	<5	<5	<5	<5	**2(J)**	<5	<5
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	<1	<1	**0.9(J)**	**0.8(J)**	**0.7(J)**	**1(J)**	**1**	**1**	**1**	**1**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**0.5(J)**	<1	**0.6(J)**	**0.6(J)**	<1	<1	**0.8(J)**	**0.8(J)**	**0.8(J)**	**0.6(J)**
bromomethane	---	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	<2	<1	<2	<2	<2	<2	<2	<2	**0.6(J)**	<2
chlorobenzene	---	**0.4(J)**	<1	**0.6(J)**	**0.5(J)**	<1	**0.7(J)**	<1	**0.8(J)**	**0.7(J)**	**0.7(J)**
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	**21.7**	**16.5**	**16.1**	**21.2**	**21.7**	**24.1**	**15.9**	**22.1**	**18.6**	**19.9**
arsenic (total)	---	**19.5**	**16.6**	**18.2**	**20.8**	**23.4**	**22.2**	**18.5**	**21.0**	**18.4**	**19.0**
calcium	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**83,100**	**93,900**	**95,800**	---	---	---	---	---	---	---
iron (total)	---	**80,400**	**89,500**	**98,100**	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	**1,760**	**1,980**	**1,900**	---	---	---	---	---	---	---
manganese (total)	---	**1,720**	**1,870**	**1,930**	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	6.22	6.36	6.20	6.20	6.37	6.16	6.14	6.21	6.19	6.33
SC (mS/cm)	---	0.841	0.945	1.151	1.139	0.918	1.213	1.268	1.275	0.893	0.772
Turb (NTU)	---	66.2	9.54	35.5	---	54.9	9.3	7.3	29.6	0.5	1.6
DO (mg/l)	---	0.06	0.2	0.13	0.21	0.34	0.27	0.14	0.17	0.23	0.13
ORP (mv)	---	-85	---	-70	-1	-72	-37	20	-138	-66.1	-81.8
Temp (^{o}C)	---	10.42	9.27	10.75	11.73	12.28	8.27	8.77	13.10	10.72	6.45
Water Level Elevation	---	---	---	146.03	144.96	144.94	145.57	146.04	144.24	143.04	145.49

NOTES:

1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-207(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10
benzene	5	**21**	**20**	**20**	**20**	**24**	**22**	**25**	**24**
ethylbenzene	---	**7**	**6**	**6**	**5**	**8**	**6**	**6**	**8**
toluene	1,000	**3**	**2**	**2**	**2**	**3**	**2**	**2**	**2**
xylenes (total)	---	**13**	**11**	**12**	**10**	**9**	**12**	**12**	**10**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	<1	**0.3(J)**	<1	<1
cis-1,2-DCE	70	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
vinyl chloride	2	<2	**0.4 (J)**	**0.6 (J)**	**0.3(J)**	**1(J)**	**4**	**0.4(J)**	<2
acetone	700	**17**	**10**	**16**	**15**	**27**	**17**	**14**	**13**
tetrahydrofuran	154	**1400**	**870**	**900**	**1200**	**1600**	**810**	**1000**	**990(D)**
2-butanone	200	**8**	<5	**8**	<5	<5	**17**	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	**2(JB)**	**2(JB)**	<5	**1(J)**	**2(J)**	**3(J)**	**1(J)**	**3(J)**
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**3**	**3**	**3**	**3**	**4**	**2**	**3**	**3**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**0.8(J)**	**0.9(J)**	**0.9(J)**	<1	**1**	**1.0(J)**	<1	**1(J)**
bromomethane	---	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2	<2	**0.4(J)**	<2	**0.5(J)**
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**5**	**5**	**5**	**3**	**5**	**4**	**6**	**2(J)**
chlorobenzene	---	**1(J)**	**0.8(J)**	<1	**0.8(J)**	**1**	**1.0(J)**	**0.9(J)**	**1**
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	**17.8**	**20.8**	**24.1**	**26.2**	**19.9**	**25.1**	**23.4**	**21.2**
arsenic (total)	---	**17.5**	**21.0**	**25.2**	**27.6**	**18.4**	**20.1**	**23.7**	**23.1**
calcium	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**87,100**	---	---	---	---	---	---	---
iron (total)	---	**85,800**	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---
manganese (total)	---	---	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---
pH (SU)	---	7.55	6.23	6.01	6.36	5.90	---	6.05	6.05
SC (mS/cm)	---	4.18	3.60	3.68	3.72	3.90	3.10	2.299	2.23
Turb (NTU)	---	24.0	---	102.0	105.0	105	2.61	9.4	5.50
DO (mg/l)	---	0.20	0.18	0.24	0.16	0.20	0.06	0.22	0.12
ORP (mv)	---	-19	37	-36	-39	-26	-39	-43.2	-20.9
Temp (^{o}C)	---	12.56	10.91	12.43	8.78	10.90	11.56	11.12	7.66
Water Level Elevation	NA	146.34	145.60	145.18	146.41	TOC	144.75	143.62	145.97

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-208(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10
benzene	5	**16**	**4**	**10**	**13**	**21**	**14**	**18**	**21**
ethylbenzene	---	**7**	**2**	**4**	**5**	**8**	**6**	**6**	**9**
toluene	1,000	**2**	**0.5(J)**	**1**	**2**	**3**	**2**	**2**	**3**
xylenes (total)	---	**6**	<3	**4**	**5**	**5**	**5**	**6**	**5**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	**0.3(J)**	<1	**0.3(J)**	**0.4(J)**
cis-1,2-DCE	70	**2**	**0.4(J)**	**0.9(J)**	**1**	**2**	**1**	**2**	**2**
vinyl chloride	2	<2	**0.5(J)**	**0.7(J)**	**0.8(J)**	**2(J)**	**4**	**0.9(J)**	**1(J)**
acetone	700	**14**	**3(J)**	**8**	**8**	**31**	**10**	**11**	<5
tetrahydrofuran	154	**960**	**40**	**320**	**460**	**1,100**	**440**	**640**	**850(D)**
2-butanone	200	<5	**2(J)**	**3(J)**	<5	**11**	**16**	<5	<5
4-methyl 2-pentanone	350	**6**	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	**0.9(JB)**	**0.6(JB)**	<5	**1(J)**	**2(J)**	**3(J)**	**1(J)**	**3(J)**
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**2**	**0.5(J)**	**2**	**2**	**4**	**2**	**3**	**4**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**2**	**0.6(J)**	**0.9 (J)**	<1	**2**	**1**	**1**	**2(J)**
bromomethane	---	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	**3(J)**
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**3**	<2	**2(J)**	**3**	**3**	<2	**4**	**3**
chlorobenzene	---	<1	<1	<1	<1	<1	**0.8(J)**	**0.8(J)**	**1**
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	**18.7**	**11.2**	**20.8**	**22.1**	**18.8**	**20.8**	**23.4**	**19.9**
arsenic (total)	---	**18.3**	**12.9**	**21.6**	**22.7**	**21.4**	**14.8**	**22.3**	**20.8**
calcium	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**170,000**	---	---	---	---	---	---	---
iron (total)	---	**160,000**	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---
manganese (total)	---	---	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---
pH (SU)	---	5.59	6.31	5.96	6.31	5.75	6.04	5.91	5.97
SC (mS/cm)	---	3.45	1.16	2.22	2.30	3.59	2.31	1.957	2.036
Turb (NTU)	---	88.1	---	153	42.8	42.3	117	9.7	19.5
DO (mg/l)	---	0.25	0.22	0.28	0.11	0.10	0.15	0.17	0.13
ORP (mv)	---	-32	-95	-24	-51	73	-87	-33.0	-9.2
Temp (^{o}C)	---	9.87	10.91	12.01	8.76	9.30	12.41	11.13	8.07
Water Level Elevation	NA	146.41	145.64	145.28	-0.87	146.86	144.83	143.69	146.26

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-209(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10
benzene	5	**14**	**8**	**4**	**4**	**3**	**9**	**16**	**19**
ethylbenzene	---	**7**	**5**	**2**	**2**	**2**	**6**	**13**	**18**
toluene	1,000	**2**	**2**	**0.9(J)**	**0.7(J)**	<1	**2**	**2**	**3**
xylenes (total)	---	**12**	**5**	**2(J)**	**2(J)**	**1(J)**	**5**	**19**	**31**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	<1	<1	**0.3(J)**	<1
cis-1,2-DCE	70	**0.7(J)**	**0.7(J)**	**0.3(J)**	**0.3(J)**	**0.3(J)**	**0.8(J)**	**1**	**2**
vinyl chloride	2	<2	**0.7 (J)**	**0.5 (J)**	<2	**0.5(J)**	**4**	**0.7 (J)**	<2
acetone	700	**10**	**4 (J)**	<5	**4(J)**	**8**	**16**	**8**	**7**
tetrahydrofuran	154	**340**	**70**	**6**	<5	**6**	**88**	**330**	**360**
2-butanone	200	**3(J)**	<5	<5	<5	**2(J)**	**14**	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	<5	**0.8 (JB)**	<5	<5	<5	**2(J)**	<5	**3(J)**
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**3**	**1**	<1	**0.5(J)**	<1	**1**	**3**	**4**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**1(J)**	**1**	**0.6(J)**	<1	**0.5(J)**	**1**	**1**	**1**
bromomethane	---	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	**3(J)**
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**2**	**0.7 (J)**	<2	<2	<2	<2	**3**	<2
chlorobenzene	---	<1	<1	<1	<1	<1	**0.5(J)**	**0.6(J)**	**0.7(J)**
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	**3(J)**
arsenic (dissolved)	10	**19.6**	**20.6**	**14.6**	**14.0**	**2.4(J)**	**16.0**	**27.6**	**23.0**
arsenic (total)	---	**18.8**	**20.4**	**15.9**	**17.6**	<1.86	**16.1**	**25.6**	**27.5**
calcium	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**135,000**	---	---	---	---	---	---	---
iron (total)	---	**133,000**	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---
manganese (total)	---	---	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---
pH (SU)	---	6.13	6.20	6.13	6.46	6.07	6.10	6.03	6.16
SC (mS/cm)	---	2.270	1.570	1.029	0.949	0.953	1.52	1.522	1.382
Turb (NTU)	---	146	---	64.2	58.4	-9	47.9	4.0	84.7
DO (mg/l)	---	0.26	0.38	0.22	0.21	0.19	0.11	0.32	0.12
ORP (mv)	---	-73	-65	-69	-46	90.3	-114	-42.1	6.7
Temp (^{o}C)	---	10.49	10.87	11.88	9.24	8.68	12.36	11.17	7.02
Water Level Elevation	NA	146.429	145.879	145.559	145.989	146.989	144.979	143.849	146.209

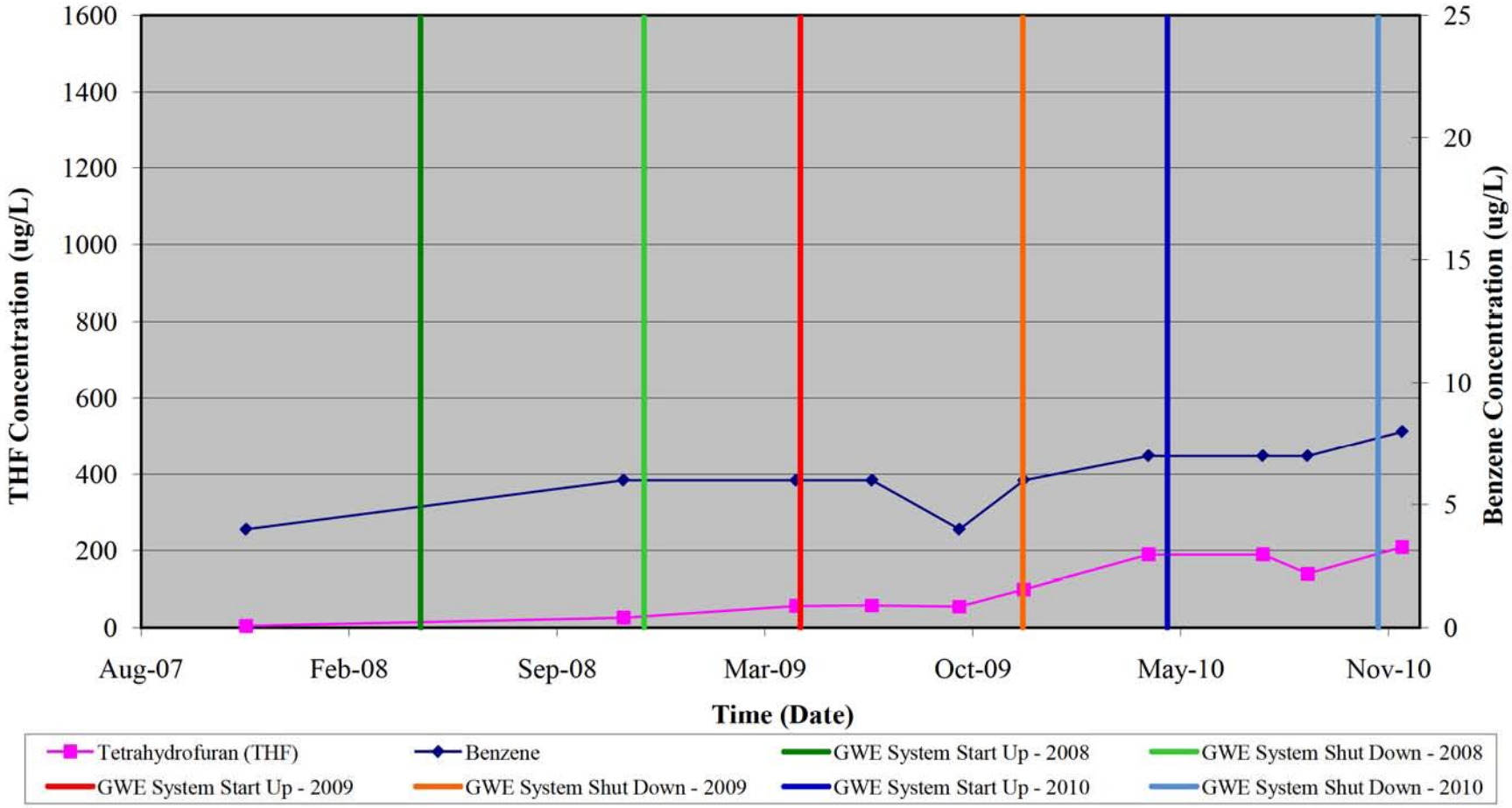
NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. **B** = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

APPENDIX C

CONCENTRATION VERSUS TIME – QUARTERLY PERFORMANCE MONITORING WELLS

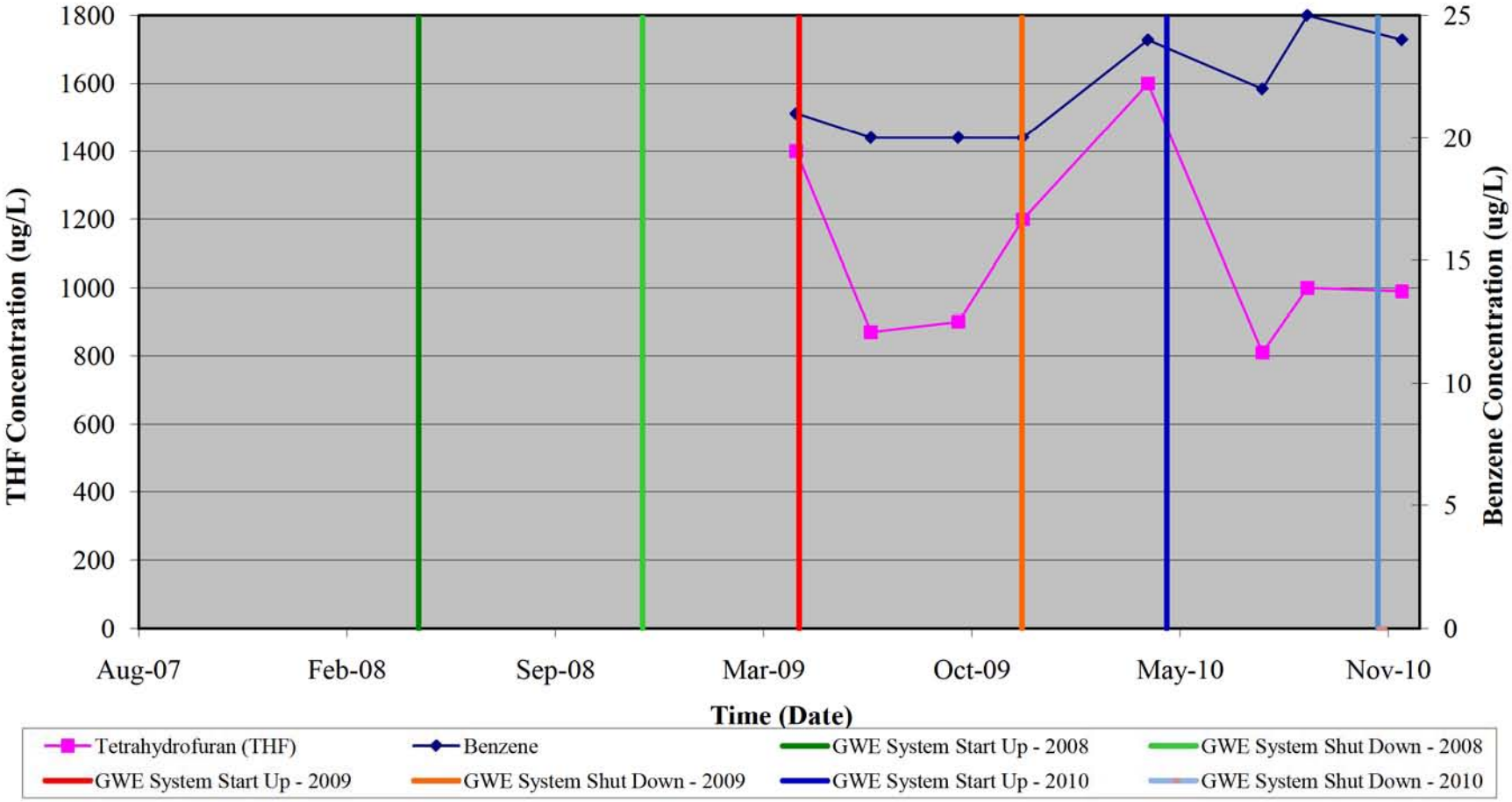
SCREENED INTERVAL
35 - 45 FEET BGS

APPENDIX C-1
CONCENTRATION VERSUS TIME - MW-200I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



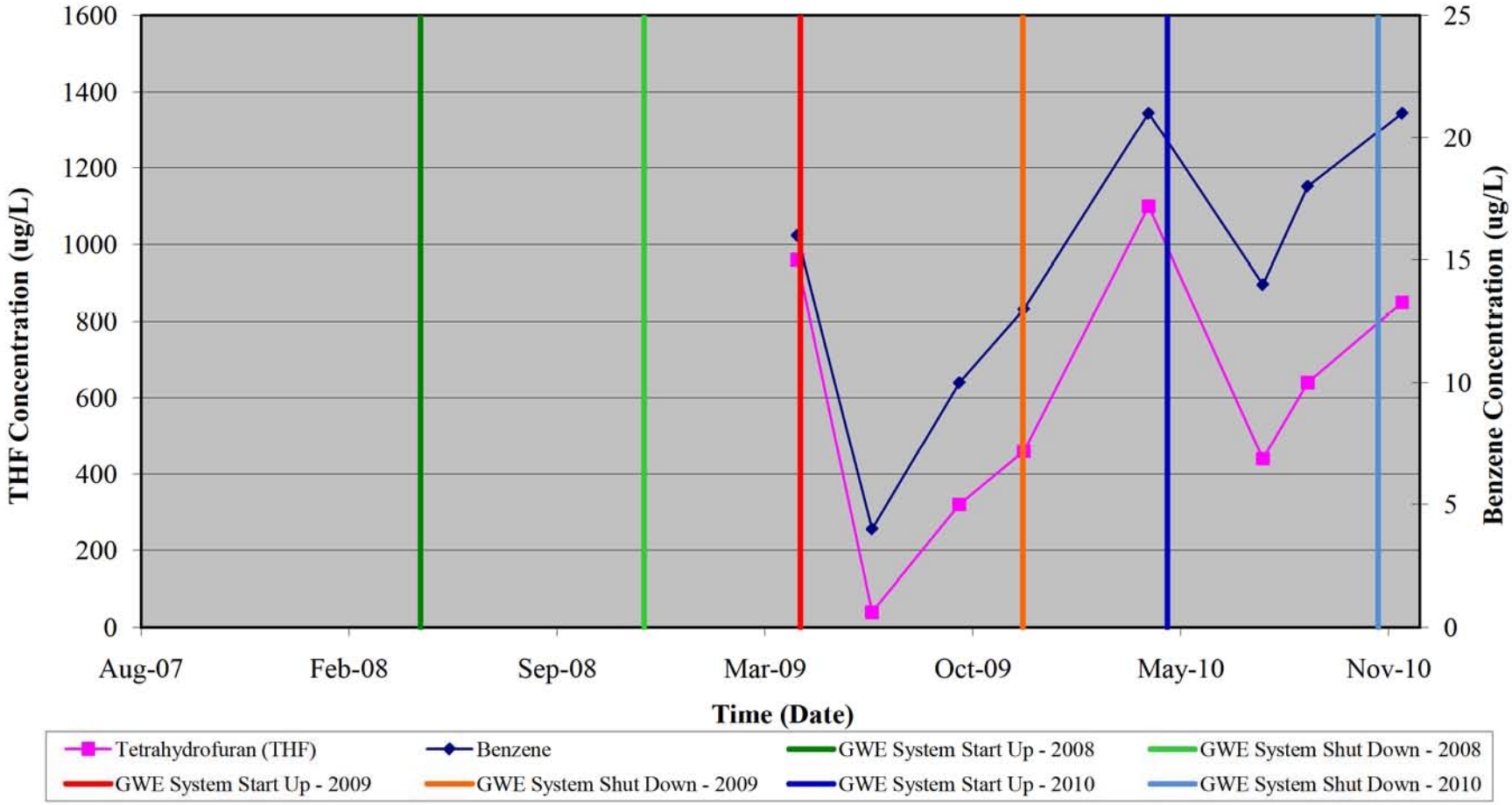
SCREENED INTERVAL
35 - 45 FEET BGS

APPENDIX C-2
CONCENTRATION VERSUS TIME - MW-207I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



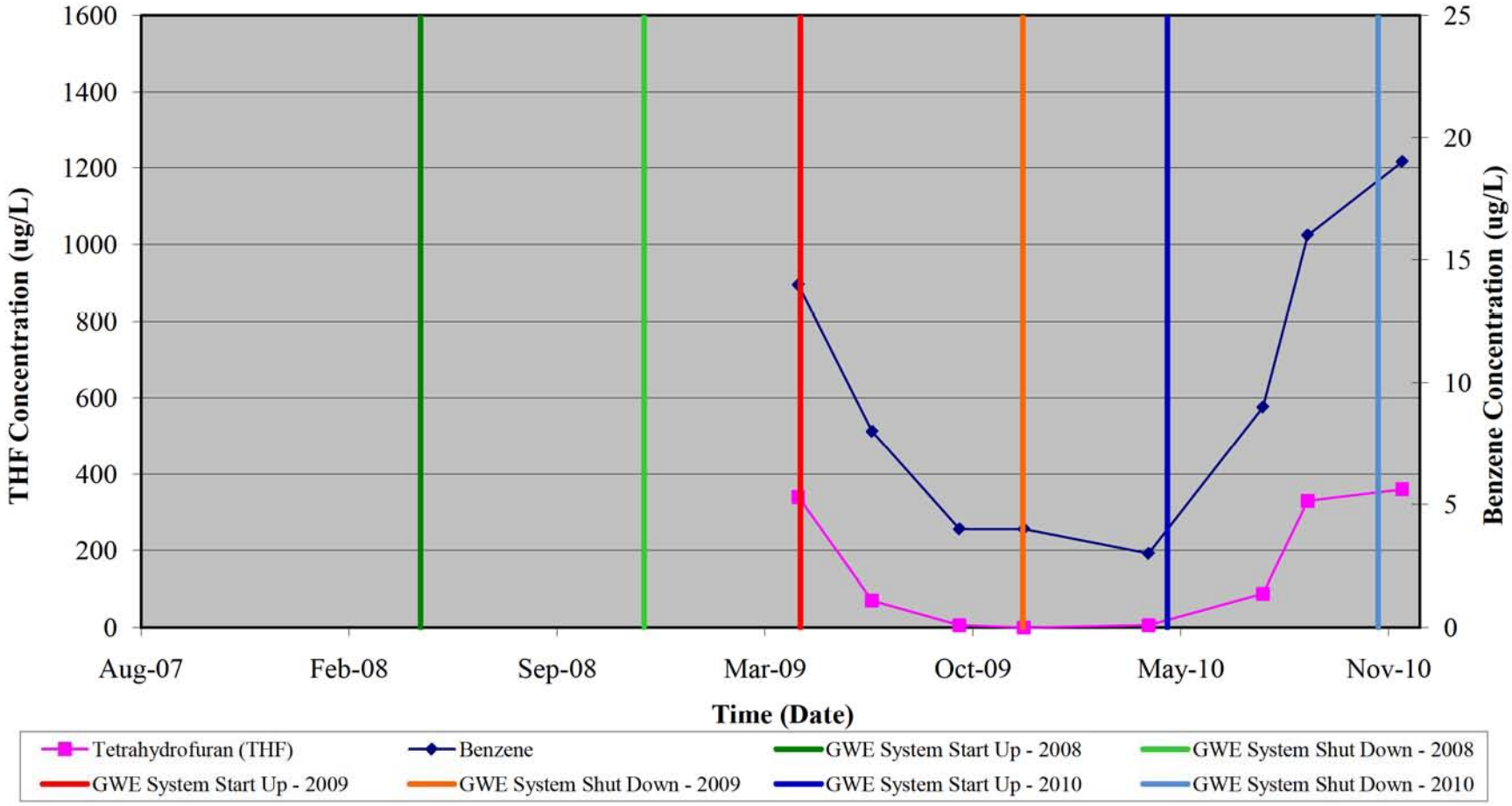
SCREENED INTERVAL
35 - 45 FEET BGS

APPENDIX C-3
CONCENTRATION VERSUS TIME - MW-208I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



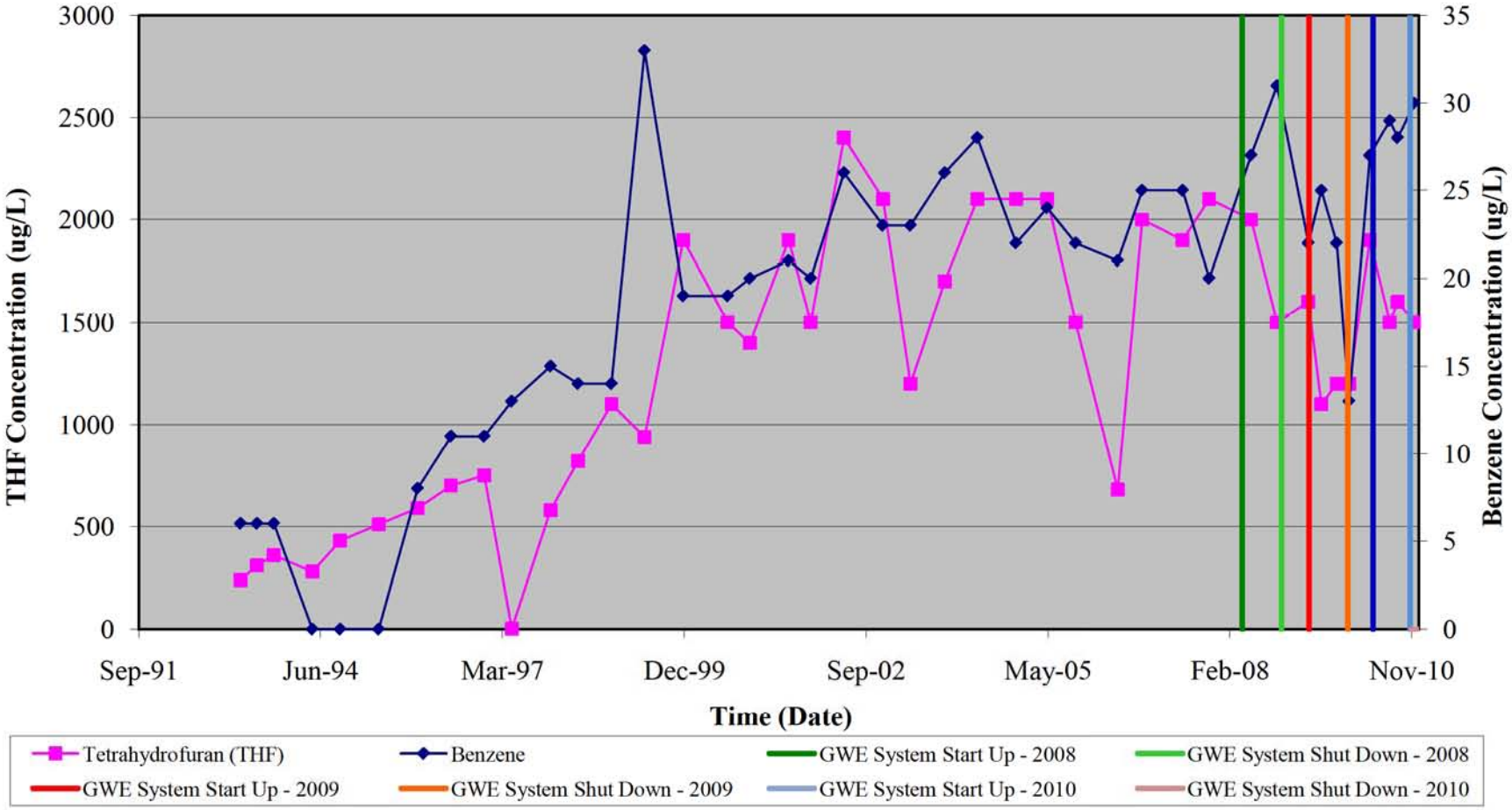
APPENDIX C-4
CONCENTRATION VERSUS TIME - MW-209I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

SCREENED INTERVAL
35 - 45 FEET BGS



SCREENED INTERVAL
34 - 44 FEET BGS

APPENDIX C-5
CONCENTRATION VERSUS TIME - SB-B2
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



APPENDIX D-1

DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLISTS (ON CD)

FRAC TANK

Sample Media Frac Tank

DOVER DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLIST

PDI/MOM/RA: Southern Plume MOM System O&M 2010 Project #: 2009-009
QA/QC Checklist Completed by: SJL Date: Not recorded
Data Entry Completed by: SJL Date: Not recorded
Data Entry QA/QC Completed by: KEZ Date: Not recorded

Data Validation Required: ☑ Tier I ☐ Tier II ☐ Tier III (See Attachments)
Laboratory Name: Resource Laboratories Laboratory ID #: 20109
Laboratory Sample Delivery Group (SDG): NA Laboratory Report Date: 10/27/10
Sample Collection Date: 10/5/10 Sampled by: BPP

ANALYSES/EXTRACTION METHODS	SAMPLE SUMMARY	DATA USABILITY SUMMARY
8260B VOCs + THF, Metals 6010B Sulfide, Cyanide, BOD, pH, TSS, Phenols, Formaldehyde	No. of Samples 1 Matrix: Soil ☐ Water ☑ Other ☐	No. of Samples Accepted 1 No. of Samples Flagged 1 No. of Samples Rejected 0

DATA REVIEW CHECKLIST *(If an answer to a question is no, then list the sample ID and the problem on the back of this page, and report to the PM immediately after completing this form)*

Field QA/QC

☑ Yes ☐ No Temperature Blank within allowable range 4°C (±2°C)?
☑ Yes ☐ No ☐ N/A Samples preserved appropriately?
☐ Yes ☐ No ☑ N/A Trip Blank was analyzed (1 per cooler)?
☐ Yes ☐ No ☑ N/A Equipment Rinse Blank(s) was collected/analyzed (1 per 20 per equipment type)?
☐ Yes ☐ No ☑ N/A Field Blank(s) was collected/analyzed (1 per water source per event)?
☐ Yes ☑ No Field duplicate collected (1 per 20 samples per matrix per parameter)?
☐ Yes ☑ No MS/MSD collected (1 per 20 samples per matrix per parameter)?

Tier I (Verification of the analytical data package for format, content, and completeness)

☑ Yes ☐ No Lab report signed and certified by laboratory?
☑ Yes ☐ No Chain of custody included in lab report?
☑ Yes ☐ No Analytical methods in final lab report same as requested/comply with project QAPP?
☑ Yes ☐ No All samples analyzed for the requested analyses?
☑ Yes ☐ No Analyte list in final lab report same as requested?
☑ Yes ☐ No Project information in lab report correct?
☑ Yes ☐ No Sample designations in lab report correct?
☐ Yes ☐ No ☑ N/A Tentatively Identified Compounds (TICs) reported?

Sample Media Frac Tank

Tier II
(Assessment of QC checks/samples and analytical procedures, application of proper data qualifiers)

☐ Yes ☐ No ☐ N/A Samples extracted within holding times ?

☐ Yes ☐ No ☐ N/A Samples analyzed within holding times?

☐ Yes ☐ No ☐ N/A Surrogate Recoveries within specified ranges?

☐ Yes ☐ No ☐ N/A Trip Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Method Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Requested method detection limits achieved (check with PM if unsure)?

☐ Yes ☐ No ☐ N/A Lab Control Spike (LCS) and LCS duplicate (if run) within acceptable limits?

☐ Yes ☐ No ☐ N/A MS/MSD within acceptable limits?

_____ Number of laboratory sample batches?

☐ Yes ☐ No Trip Blank analyzed with each batch?

☐ Yes ☐ No Method Blank analyzed with each batch?

☐ Yes ☐ No LCS and LCS duplicate (if run) analyzed with each batch?

Sample IDs	Explanation of QA/QC Deficiencies/Actions Taken
Frac Tank	pH analyzed beyond method hold time, flag as estimate

Sample Media Frac Tank

DOVER DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLIST

PDI/MOM/RA: Southern Plume MOM System O&M 2010 Project #: 2009-009
QA/QC Checklist Completed by: SJL Date: Not recorded
Data Entry Completed by: SJL Date: Not recorded
Data Entry QA/QC Completed by: KEZ Date: Not recorded

Data Validation Required: ☑ Tier I ☐ Tier II ☐ Tier III (See Attachments)
Laboratory Name: Resource Laboratories Laboratory ID #: 20109
Laboratory Sample Delivery Group (SDG): NA Laboratory Report Date: 10/27/10
Sample Collection Date: 10/5/10 Sampled by: BPP

ANALYSES/EXTRACTION METHODS	SAMPLE SUMMARY	DATA USABILITY SUMMARY
8260B VOCs + THF, Metals 6010B Sulfide, Cyanide, BOD, pH, TSS, Phenols, Formaldehyde	No. of Samples 1 Matrix: Soil ☐ Water ☑ Other ☐	No. of Samples Accepted 1 No. of Samples Flagged 1 No. of Samples Rejected 0

DATA REVIEW CHECKLIST *(If an answer to a question is no, then list the sample ID and the problem on the back of this page, and report to the PM immediately after completing this form)*

Field QA/QC

☑ Yes ☐ No Temperature Blank within allowable range 4°C (±2°C)?
☑ Yes ☐ No ☐ N/A Samples preserved appropriately?
☐ Yes ☐ No ☑ N/A Trip Blank was analyzed (1 per cooler)?
☐ Yes ☐ No ☑ N/A Equipment Rinse Blank(s) was collected/analyzed (1 per 20 per equipment type)?
☐ Yes ☐ No ☑ N/A Field Blank(s) was collected/analyzed (1 per water source per event)?
☐ Yes ☑ No Field duplicate collected (1 per 20 samples per matrix per parameter)?
☐ Yes ☑ No MS/MSD collected (1 per 20 samples per matrix per parameter)?

Tier I (Verification of the analytical data package for format, content, and completeness)

☑ Yes ☐ No Lab report signed and certified by laboratory?
☑ Yes ☐ No Chain of custody included in lab report?
☑ Yes ☐ No Analytical methods in final lab report same as requested/comply with project QAPP?
☑ Yes ☐ No All samples analyzed for the requested analyses?
☑ Yes ☐ No Analyte list in final lab report same as requested?
☑ Yes ☐ No Project information in lab report correct?
☑ Yes ☐ No Sample designations in lab report correct?
☐ Yes ☐ No ☑ N/A Tentatively Identified Compounds (TICs) reported?

Sample Media Frac Tank

Tier II
(Assessment of QC checks/samples and analytical procedures, application of proper data qualifiers)

☐ Yes ☐ No ☐ N/A Samples extracted within holding times ?

☐ Yes ☐ No ☐ N/A Samples analyzed within holding times?

☐ Yes ☐ No ☐ N/A Surrogate Recoveries within specified ranges?

☐ Yes ☐ No ☐ N/A Trip Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Method Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Requested method detection limits achieved (check with PM if unsure)?

☐ Yes ☐ No ☐ N/A Lab Control Spike (LCS) and LCS duplicate (if run) within acceptable limits?

☐ Yes ☐ No ☐ N/A MS/MSD within acceptable limits?

_____ Number of laboratory sample batches?

☐ Yes ☐ No Trip Blank analyzed with each batch?

☐ Yes ☐ No Method Blank analyzed with each batch?

☐ Yes ☐ No LCS and LCS duplicate (if run) analyzed with each batch?

Sample IDs	Explanation of QA/QC Deficiencies/Actions Taken
Frac Tank	pH analyzed beyond method hold time, flag as estimate

Sample Media Frac Tank

DOVER DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLIST

PDI/MOM/RA: Southern Plume MOM System O&M 2010 Project #: 2009-009
QA/QC Checklist Completed by: SJL Date: Not recorded
Data Entry Completed by: SJL Date: Not recorded
Data Entry QA/QC Completed by: KEZ Date: Not recorded

Data Validation Required: ☑ Tier I ☐ Tier II ☐ Tier III (See Attachments)
Laboratory Name: Resource Laboratories Laboratory ID #: 20109
Laboratory Sample Delivery Group (SDG): NA Laboratory Report Date: 10/27/10
Sample Collection Date: 10/5/10 Sampled by: BPP

ANALYSES/EXTRACTION METHODS	SAMPLE SUMMARY	DATA USABILITY SUMMARY
8260B VOCs + THF, Metals 6010B Sulfide, Cyanide, BOD, pH, TSS, Phenols, Formaldehyde	No. of Samples 1 Matrix: Soil ☐ Water ☑ Other ☐	No. of Samples Accepted 1 No. of Samples Flagged 1 No. of Samples Rejected 0

DATA REVIEW CHECKLIST *(If an answer to a question is no, then list the sample ID and the problem on the back of this page, and report to the PM immediately after completing this form)*

Field QA/QC

☑ Yes ☐ No Temperature Blank within allowable range 4°C (±2°C)?
☑ Yes ☐ No ☐ N/A Samples preserved appropriately?
☐ Yes ☐ No ☑ N/A Trip Blank was analyzed (1 per cooler)?
☐ Yes ☐ No ☑ N/A Equipment Rinse Blank(s) was collected/analyzed (1 per 20 per equipment type)?
☐ Yes ☐ No ☑ N/A Field Blank(s) was collected/analyzed (1 per water source per event)?
☐ Yes ☑ No Field duplicate collected (1 per 20 samples per matrix per parameter)?
☐ Yes ☑ No MS/MSD collected (1 per 20 samples per matrix per parameter)?

Tier I (Verification of the analytical data package for format, content, and completeness)

☑ Yes ☐ No Lab report signed and certified by laboratory?
☑ Yes ☐ No Chain of custody included in lab report?
☑ Yes ☐ No Analytical methods in final lab report same as requested/comply with project QAPP?
☑ Yes ☐ No All samples analyzed for the requested analyses?
☑ Yes ☐ No Analyte list in final lab report same as requested?
☑ Yes ☐ No Project information in lab report correct?
☑ Yes ☐ No Sample designations in lab report correct?
☐ Yes ☐ No ☑ N/A Tentatively Identified Compounds (TICs) reported?

Sample Media Frac Tank

Tier II
(Assessment of QC checks/samples and analytical procedures, application of proper data qualifiers)

☐ Yes ☐ No ☐ N/A Samples extracted within holding times ?

☐ Yes ☐ No ☐ N/A Samples analyzed within holding times?

☐ Yes ☐ No ☐ N/A Surrogate Recoveries within specified ranges?

☐ Yes ☐ No ☐ N/A Trip Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Method Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Requested method detection limits achieved (check with PM if unsure)?

☐ Yes ☐ No ☐ N/A Lab Control Spike (LCS) and LCS duplicate (if run) within acceptable limits?

☐ Yes ☐ No ☐ N/A MS/MSD within acceptable limits?

_____ Number of laboratory sample batches?

☐ Yes ☐ No Trip Blank analyzed with each batch?

☐ Yes ☐ No Method Blank analyzed with each batch?

☐ Yes ☐ No LCS and LCS duplicate (if run) analyzed with each batch?

Sample IDs	Explanation of QA/QC Deficiencies/Actions Taken
Frac Tank	pH analyzed beyond method hold time, flag as estimate

INFLUENT EFFLUENT

Sample Media Frac Tank

DOVER DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLIST

PDI/MOM/RA: Southern Plume MOM System O&M 2010 Project #: 2009-009
QA/QC Checklist Completed by: SJL Date: Not recorded
Data Entry Completed by: SJL Date: Not recorded
Data Entry QA/QC Completed by: KEZ Date: Not recorded

Data Validation Required: ☑ Tier I ☐ Tier II ☐ Tier III (See Attachments)
Laboratory Name: Resource Laboratories Laboratory ID #: 20109
Laboratory Sample Delivery Group (SDG): NA Laboratory Report Date: 10/27/10
Sample Collection Date: 10/5/10 Sampled by: BPP

ANALYSES/EXTRACTION METHODS	SAMPLE SUMMARY	DATA USABILITY SUMMARY
8260B VOCs + THF, Metals 6010B Sulfide, Cyanide, BOD, pH, TSS, Phenols, Formaldehyde	No. of Samples 1 Matrix: Soil ☐ Water ☑ Other ☐	No. of Samples Accepted 1 No. of Samples Flagged 1 No. of Samples Rejected 0

DATA REVIEW CHECKLIST *(If an answer to a question is no, then list the sample ID and the problem on the back of this page, and report to the PM immediately after completing this form)*

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☑ Yes ☐ No Temperature Blank within allowable range 4°C (±2°C)?
☑ Yes ☐ No ☐ N/A Samples preserved appropriately?
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☐ Yes ☐ No ☑ N/A Field Blank(s) was collected/analyzed (1 per water source per event)?
☐ Yes ☑ No Field duplicate collected (1 per 20 samples per matrix per parameter)?
☐ Yes ☑ No MS/MSD collected (1 per 20 samples per matrix per parameter)?

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☑ Yes ☐ No Sample designations in lab report correct?
☐ Yes ☐ No ☑ N/A Tentatively Identified Compounds (TICs) reported?

Sample Media Frac Tank

Tier II
(Assessment of QC checks/samples and analytical procedures, application of proper data qualifiers)

☐ Yes ☐ No ☐ N/A Samples extracted within holding times ?

☐ Yes ☐ No ☐ N/A Samples analyzed within holding times?

☐ Yes ☐ No ☐ N/A Surrogate Recoveries within specified ranges?

☐ Yes ☐ No ☐ N/A Trip Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Method Blank is non-detect (ND) for all analytes?

☐ Yes ☐ No ☐ N/A Requested method detection limits achieved (check with PM if unsure)?

☐ Yes ☐ No ☐ N/A Lab Control Spike (LCS) and LCS duplicate (if run) within acceptable limits?

☐ Yes ☐ No ☐ N/A MS/MSD within acceptable limits?

_____ Number of laboratory sample batches?

☐ Yes ☐ No Trip Blank analyzed with each batch?

☐ Yes ☐ No Method Blank analyzed with each batch?

☐ Yes ☐ No LCS and LCS duplicate (if run) analyzed with each batch?

Sample IDs	Explanation of QA/QC Deficiencies/Actions Taken
Frac Tank	pH analyzed beyond method hold time, flag as estimate

Sample Media Frac Tank

DOVER DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLIST

PDI/MOM/RA: Southern Plume MOM System O&M 2010 Project #: 2009-009
QA/QC Checklist Completed by: SJL Date: Not recorded
Data Entry Completed by: SJL Date: Not recorded
Data Entry QA/QC Completed by: KEZ Date: Not recorded

Data Validation Required: ☑ Tier I ☐ Tier II ☐ Tier III (See Attachments)
Laboratory Name: Resource Laboratories Laboratory ID #: 20109
Laboratory Sample Delivery Group (SDG): NA Laboratory Report Date: 10/27/10
Sample Collection Date: 10/5/10 Sampled by: BPP

ANALYSES/EXTRACTION METHODS	SAMPLE SUMMARY	DATA USABILITY SUMMARY
8260B VOCs + THF, Metals 6010B Sulfide, Cyanide, BOD, pH, TSS, Phenols, Formaldehyde	No. of Samples 1 Matrix: Soil ☐ Water ☑ Other ☐	No. of Samples Accepted 1 No. of Samples Flagged 1 No. of Samples Rejected 0

DATA REVIEW CHECKLIST *(If an answer to a question is no, then list the sample ID and the problem on the back of this page, and report to the PM immediately after completing this form)*

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☐ Yes ☐ No ☑ N/A Trip Blank was analyzed (1 per cooler)?
☐ Yes ☐ No ☑ N/A Equipment Rinse Blank(s) was collected/analyzed (1 per 20 per equipment type)?
☐ Yes ☐ No ☑ N/A Field Blank(s) was collected/analyzed (1 per water source per event)?
☐ Yes ☑ No Field duplicate collected (1 per 20 samples per matrix per parameter)?
☐ Yes ☑ No MS/MSD collected (1 per 20 samples per matrix per parameter)?

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☑ Yes ☐ No Lab report signed and certified by laboratory?
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☑ Yes ☐ No Sample designations in lab report correct?
☐ Yes ☐ No ☑ N/A Tentatively Identified Compounds (TICs) reported?

Sample Media Frac Tank

Tier II
(Assessment of QC checks/samples and analytical procedures, application of proper data qualifiers)

☐ Yes ☐ No ☐ N/A Samples extracted within holding times ?

☐ Yes ☐ No ☐ N/A Samples analyzed within holding times?

☐ Yes ☐ No ☐ N/A Surrogate Recoveries within specified ranges?

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☐ Yes ☐ No ☐ N/A Lab Control Spike (LCS) and LCS duplicate (if run) within acceptable limits?

☐ Yes ☐ No ☐ N/A MS/MSD within acceptable limits?

_____ Number of laboratory sample batches?

☐ Yes ☐ No Trip Blank analyzed with each batch?

☐ Yes ☐ No Method Blank analyzed with each batch?

☐ Yes ☐ No LCS and LCS duplicate (if run) analyzed with each batch?

Sample IDs	Explanation of QA/QC Deficiencies/Actions Taken
Frac Tank	pH analyzed beyond method hold time, flag as estimate

Sample Media Frac Tank

DOVER DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLIST

PDI/MOM/RA: Southern Plume MOM System O&M 2010 Project #: 2009-009
QA/QC Checklist Completed by: SJL Date: Not recorded
Data Entry Completed by: SJL Date: Not recorded
Data Entry QA/QC Completed by: KEZ Date: Not recorded

Data Validation Required: ☑ Tier I ☐ Tier II ☐ Tier III (See Attachments)
Laboratory Name: Resource Laboratories Laboratory ID #: 20109
Laboratory Sample Delivery Group (SDG): NA Laboratory Report Date: 10/27/10
Sample Collection Date: 10/5/10 Sampled by: BPP

ANALYSES/EXTRACTION METHODS	SAMPLE SUMMARY	DATA USABILITY SUMMARY
8260B VOCs + THF, Metals 6010B Sulfide, Cyanide, BOD, pH, TSS, Phenols, Formaldehyde	No. of Samples 1 Matrix: Soil ☐ Water ☑ Other ☐	No. of Samples Accepted 1 No. of Samples Flagged 1 No. of Samples Rejected 0

DATA REVIEW CHECKLIST *(If an answer to a question is no, then list the sample ID and the problem on the back of this page, and report to the PM immediately after completing this form)*

Field QA/QC

☑ Yes ☐ No Temperature Blank within allowable range 4°C (±2°C)?
☑ Yes ☐ No ☐ N/A Samples preserved appropriately?
☐ Yes ☐ No ☑ N/A Trip Blank was analyzed (1 per cooler)?
☐ Yes ☐ No ☑ N/A Equipment Rinse Blank(s) was collected/analyzed (1 per 20 per equipment type)?
☐ Yes ☐ No ☑ N/A Field Blank(s) was collected/analyzed (1 per water source per event)?
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Sample Media Frac Tank

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Sample Media Frac Tank

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Sample Media Frac Tank

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Sample Media Frac Tank

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PERFORMANCE MONITORING

Sample Media Frac Tank

DOVER DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLIST

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APPENDIX D-2

SUMMARY OF COMPOUNDS WITH POOR PURGING EFFICIENCY

APPENDIX D-2
SUMMARY OF COMPOUNDS WITH POOR PURGING EFFICIENCY
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Compounds	Reference Source
1,1,2,2-tetrachloroethane	3
1,2,3-trichloropropane	2
1,2-dibromo-3-chloropropane (DBCP)	1,2,3
1,2-dibromoethane (EDB)	3
2,2-dichloropropane	3
2-butanone	1,2,3
2-hexanone	1,2,3
4-methyl-2-pentanone	1,2,3
acetone	1,2,3
bromoform	3
bromomethane	2,3
carbon disulfide	1,3
chloroethane	2,3
chloromethane	2,3
dichlorodifluoromethane	2,3
styrene	2,3
tetrahydrofuran	4
trichlorofluoromethane	2,3
vinyl chloride	2,3

Note:

1. Source - USEPA Method 8260B, SW-846, 3rd Edition.
2. Source - MADEP CAM Guidance dated May 24, 2004 (WSC-CAM-IIA).
3. Source - Department of Defense Quality Systems Manual, Version 3.
4. Source - Absolute Resource Associates (ARA); ARA uses data from its Laboratory Control Sample analyses to identify compounds that routinely exhibit recoveries outside the acceptance limits of 30 to 100 percent.

SUMMARY AND STATUS OF ACTIVITIES – Q1 – APRIL 10, 2011
NORTHWEST LANDFILL HOTSPOT REMEDIAL DESIGN AND REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

Baseline Ground Water and Soil Vapor Sampling Activities
Baseline soil vapor and ground water sampling was conducted in February and March 2011, respectively. Data from the sampling events will be presented as a component of the 2011 Summary and Status of Activities – Q2 report.

2. Deliverables and Correspondence

None.

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- AS and SVE System start-up activities (April 2011);
- Initial AS well replacement activities (May 2011);
- Monthly Operations and Management field events (May – November 2011); and
- Submittal of the 2010 AS and SVE Operational Summary Report.

4. Status of Activities

Performance and regulatory monitoring data will be submitted with the Quarterly Progress Reports as these data become available.

Remedy Design:	Complete.
Remedy Construction:	Complete.
Remedy Implementation:	Active.
Mass Removal 2009:	17,603 pounds
Mass Removal 2010:	22,525 pounds
Total Mass Removal:	40,128 pounds

5. Modifications

None.

NORTHWEST LANDFILL RESPONSE ACTION
AIR SPARGING AND SOIL VAPOR EXTRACTION
2010 ANNUAL REPORT

DOVER MUNICIPAL LANDFILL
SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Prepared For:

Executive Committee of the Group of Work Settling Defendants
Dover Municipal Landfill Superfund Site

Prepared By:

STRATEGIC. ENVIRONMENTAL. SOLUTIONS.

22 Marin Way
Stratham, New Hampshire 03885
Tel: (603) 778-1100
Fax: (603) 778-2121

April 12, 2011

TABLE OF CONTENTS

SECTION **PAGE**

1.0 INTRODUCTION 1
1.1 BACKGROUND 1
1.1.1 Site Description 1
1.2 NORTHWEST LANDFILL RESPONSE ACTION COMPOUNDS OF CONCERN ... 2
1.3 AS AND SVE SYSTEM SUMMARY 2
1.3.1 System Components 2
1.3.2 System Layout and Design 3
2.0 2010 SYSTEM OPERATION AND MONITORING 4
2.1 BASELINE & SEASONAL POST TREATMENT PERFORMANCE MONITORING 4
2.2 2010 SYSTEM OPERATION AND MONITORING 4
2.2.1 Telemetry System Checks 4
2.2.2 Monthly Site Visits 5
3.0 2010 SYSTEM MONITORING AND O&M RESULTS 7
3.1 SYSTEM INSPECTIONS RESULTS 7
3.2 REGULATORY MONITORING 7
3.2.1 SVE Discharge Stack Sampling 7
3.2.2 Carbon Treatment Aqueous Samples 7
3.3 EXPOSURE MONITORING 8
3.3.1 Vapor Probes 8
3.3.2 Tolend Road Samples 8
3.4 PERFORMANCE MONITORING 9
3.4.1 Ground Water Sampling Results 9
3.4.2 Soil Vapor Sampling 10
3.4.3 SVE Discharge Vapor Monitoring 10
4.0 2011 SYSTEM OPERATION, MAINTENANCE & MONITORING 12
4.1 GENERAL OPERATIONS AND MAINTENACE 12
4.2 2011 SYSTEM OPERATION MODIFICATIONS 12
4.2.1 Photo-Ionization Detector Dynamic Field Sampling 12

TABLE OF CONTENTS

(CONTINUED)

SECTION **PAGE**

4.3 PERFORMANCE OPTIMIZATION 12
4.3.1 AS Group Cycling Frequency 12
4.3.2 Additional AS and SVE Discharge Sampling 12
4.3.3 AS Well Replacement 13
4.3.4 Maximizing Treatment Efficiency 13

TABLES

TABLE 1	AS and SVE Process Monitoring
TABLE 2	SVE Discharge VOC Concentrations
TABLE 3	Aqueous Carbon Treatment VOC Concentrations
TABLE 4	Vapor Probe Data
TABLE 5	Soil Vapor Extraction Well Air Flow Data
TABLE 6	Air Sparge Well Flow Data
TABLE 7	Ambient Air Exposure Monitoring VOC Concentrations
TABLE 8	Ground Water VOC Concentrations
TABLE 9	Increasing and Decreasing Volatile Organic Compound Concentrations within the Upper Sands Treatment Area
TABLE 10	Baseline Analytical Results from Soil Vapor Extraction Wells
TABLE 11	AS and SVE System Mass Removal Totals

FIGURES

FIGURE 1	Site Location Map
FIGURE 2	Site Map
FIGURE 3	Air Sparge Well Locations and Piping Layout
FIGURE 4	Soil Vapor Extraction Well Locations and Piping Layout
FIGURE 5	Tetrachloroethene Ground Water Concentrations in the US
FIGURE 6	cis-1,2-Dichloroethene Ground Water Concentrations in the US
FIGURE 7	Vinyl Chloride Ground Water Concentrations in the US
FIGURE 8	Toluene Ground Water Concentrations in the US
FIGURE 9	Estimated Total VOC Mass Removal Rate versus Time
FIGURE 10	Estimated PCE, TCE, cis-DCE, and VC Mass Removal Rates versus Time
FIGURE 11	Estimated Toluene, Ethylbenzene, m,p-Xylenes, and o-Xylene Mass Removal Rates versus Time

APPENDICIES

APPENDIX A	Laboratory Analytical Reports
APPENDIX B	Waste Manifests

1.0 INTRODUCTION

1.1 BACKGROUND

In accordance with the 2004 Amended Record of Decision (2004 AROD), the United States Environmental Protection Agency (USEPA) Region 1, in agreement with the New Hampshire Department of Environmental Services (NHDES), has lodged an Amended Consent Decree that requires the completion of Remedial Design/Remedial Action activities at the Dover Municipal Landfill (the Landfill) Superfund Site and associated impacted ground water (the Site).

In 2004, GeoInsight, Inc. (GeoInsight), XDD, LLC (XDD), and Shaw Environmental & Infrastructure, Inc. prepared a Revised Focused Feasibility Study (2004 RFFS) for the Site. The 2004 RFFS identified the need to locate the source of volatile organic compounds (VOCs) detected in surface water samples along the northern perimeter ditch. As directed by the 2004 AROD, a Pre-Design Investigation (PDI) was completed by GeoInsight in 2006 to evaluate VOC impacts in the northwest area of the landfill (VOC hot spot). Based on the results of the PDI, the VOC hot spot area was identified as the primary source of VOCs to the northern portion of the perimeter ditch. GeoInsight presented the results of the PDI in the "Draft Summary Report, Phase I Activities, Northwest Landfill Pre-Design Investigation, Dover Municipal Landfill Superfund Site, Dover, New Hampshire," (the 2006 Northwest Landfill PDI), dated December 2006.

In late November and early December 2007, XDD conducted an air sparging (AS) and soil vapor extraction (SVE) system pilot test in the VOC hot spot area to evaluate the feasibility of and establish design parameters to reduce VOC concentrations within the saturated upper sand (US) unit and overlying unsaturated refuse. Based on the results of the pilot test, a Northwest Landfill Response Action (NWLFRA) was initiated and a full-scale AS and SVE system was constructed in the VOC hot spot area during the summer and fall of 2008. The initial AS and SVE system start up and system operation was completed in 2009 and was summarized in the Northwest Landfill Response Action Air Sparging and Soil Vapor Extraction 2009 Annual Report (April 2010). This report will summarize the 2010 AS and SVE system operation and propose adjustments for operation in 2011.

1.1.1 Site Description

The Site is located southeast of the intersection of Tolend and Glen Hill Roads in the west corner of the City of Dover (the City), Strafford County, New Hampshire (Figure 1). The Site is comprised of the Landfill, which occupies approximately 47 acres, and a region of ground water contamination that extends west and south of the Landfill boundaries into undeveloped woodlands and forested wetlands (Figure 2). The "Hoppers" wetlands and residential properties along Tolend and Glen Hill Roads border the Site to the north and east, and undeveloped woodlands and forested wetlands surround the remaining boundaries of the Site. Nearby water bodies include the Cocheco River, which lies less than 1,000 feet to the north and east, and the Bellamy Reservoir, which is located approximately 2,000 feet to the south of the Site.

The Landfill surface is generally topographically flat with a slight increase in elevation from the east side to the northwest corner. Along the eastern and northern perimeter of the Landfill, the elevation of the Landfill is similar to that of Tolend Road (i.e., there is no defined slope and toe to the Landfill in these areas). Along the southern and western perimeter, the slope reaches a maximum height of approximately 20 feet.

Small trees and shrubs cover the eastern, northeastern, and localized areas of the northern portion of the Landfill, and the central and southern portions are covered by sparse vegetation including grass and low brush. Access is via a gate and dirt road located at the southeast corner of the Landfill, just north of the intersection of Tolend and Glen Hill Roads.

The perimeter ditch flows along the toe of the Landfill and discharges via a series of culverts to a gully (known as the "swale") located east of the intersection of Tolend and Glen Hill Roads. The swale, which trends southwest/northeast, drains to the northeast and discharges to the Cocheco River, approximately 800 feet east of the Landfill. The elevation of surface water in the Cocheco River is approximately 30 feet lower than the ground surface along Tolend Road.

More detailed descriptions of the Site are presented in Section 1 of the 2004 RFFS.

1.2 NORTHWEST LANDFILL RESPONSE ACTION COMPOUNDS OF CONCERN

The primary constituents of concern (COCs) to be addressed by the AS and SVE system are:

- tetrachloroethene (PCE) and associated daughter products [trichloroethene (TCE), , cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), and vinyl chloride (VC)];
- benzene, toluene, ethylbenzene, and xylenes (BTEX compounds);
- 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), and 1,1-dichloroethane (1,1-DCA);

1.3 AS AND SVE SYSTEM SUMMARY

1.3.1 System Components

The AS and SVE system was constructed and operated as presented in the Northwest Landfill Response Action Work Plan (the work plan), submitted by XDD on October 24, 2008. The AS and SVE system targets two portions of the NWLFRA area: the VOC treatment area (VOCTA) and the Perimeter Treatment Curtain (PTC) (Figures 3 and 4). The VOCTA occupies a majority of the NWLFRA area. The PTC is a smaller treatment area located approximately 25 feet northeast of the VOCTA.

The AS and SVE system, which includes treatment systems for both the VOCTA and PTC area, is comprised of the following major components:

- 132 AS wells and 31 SVE wells;
- An equipment trailer that houses the treatment system; and

- Aboveground process piping that connects the AS and SVE wells to the treatment system and a discharge stack.

Additionally, four ground water monitoring wells and six vapor probes were installed in the NWLFRA area for monitoring purposes. A drywell was installed near the equipment trailer for the injection of treated condensate water.

1.3.2 System Layout and Design

The AS wells within the VOCTA are operated using four wells groups (Figure 3). The system was designed to rotate 2 hours of active sparging between the four groups (i.e., the four groupings operate for 2 hours at a time in succession, each with 6 hours of rest before cycling on again). Each group consists of 31 AS wells that are equally distributed throughout the VOCTA. Additionally, AS wells were arranged in the VOCTA so that wells adjacent to each other would not be assigned to the same group.

The eight AS wells located in the PTC area operate independently of the VOCTA. The AS wells within the PTC area operated simultaneously with 2 hours of active sparging in every 8-hour period. The 31 SVE wells operate continuously during active AS (i.e., at no time are the AS wells operated without active SVE operation). The total extraction rate for the SVE system (which includes both the VOCTA and PTC area) was designed to be approximately 775 standard cubic feet per minute (scfm).

2.0 2010 SYSTEM OPERATION AND MONITORING

2.1 BASELINE & SEASONAL POST TREATMENT PERFORMANCE MONITORING

As a component of the performance evaluation process, baseline and seasonal post treatment samples are collected at the Site. As specified in the work plan, ground water samples were collected from 13 AS wells and four ground water monitoring wells (except at GW-02 where an obstruction within the well riser prevented collection in December 2010) as a component of the 2010 baseline and seasonal post treatment ground water sampling events. Of the 13 AS wells sampled, 10 are designated as recurring sampling locations (Figure 3), with three locations rotated on a yearly basis (for a total of approximately 10% of 132 AS wells). COC results from the recurring 10 AS locations and ground water locations are used to determine system performance with time, while data from the remaining three variable sampling locations are used to evaluate the magnitude of VOC concentrations in the remainder of the US unit. To obtain additional information for the 2011 operational season, an additional three ground water samples were collected (AS-05D, AS-22D, and AS-27D) during the seasonal post treatment event in 2010. Additionally, baseline sampling also consists of:

- field measured total VOCs at each SVE well;
- field measured vacuum/pressure at the six vapor probes;
- field measured total VOCs and methane concentrations at two of the six vapor probes (VP-05 and VP-06);
- soil vapor samples collected from seven SVE locations for laboratory analysis (Figure 4); and
- an ambient air sample collected along Tolend Road to the north of the treatment area to assess VOC concentrations in ambient air prior to the start of operations.

The baseline sampling event occurred in March and April 2010, prior to startup of the AS and SVE system. Ground water samples were collected via modified USEPA low flow sampling methodology and analyzed for VOCs via USEPA Method 8260B. Seasonal post treatment sampling occurred in December 2010 (one month after cessation of active remediation to allow for the re-equilibration of soils with ground water in the NWLFRA area). Ground water samples were collected via modified USEPA low flow sampling methodology and analyzed for VOCs via USEPA Method 8260B.

2.2 2010 SYSTEM OPERATION AND MONITORING

Two types of O&M oversight were conducted at the AS and SVE system in 2010: system checks via remote telemetry and monthly Site visits.

2.2.1 Telemetry System Checks

The AS and SVE remote telemetry system was used to:

- check on alarm conditions received by XDD; and
- record current operational parameters on a weekly basis. If operational parameters were observed to significantly differ from the design, an engineer would be sent to the Site to diagnose the issue.

Operational parameters logged during weekly system checks are provided in Table 1.

2.2.2 Monthly Site Visits

Monthly Site visits were conducted by a Site engineer to check that the system was performing according to specifications as outlined in the work plan. Table 1 also includes parameters recorded during monthly Site visits. The following additional tasks were also completed during monthly Site visits:

- System Inspections
  Physical inspections of the process piping and equipment trailer were conducted during monthly Site visits and included:

  - inspection of the physical integrity of the wells and wellheads;
  - inspection of the physical integrity of the interior and exterior piping and manifolds;
  - inspection of the physical integrity of the SVE stack; and
  - identification of visible leaks of water or oil from equipment contained with the system trailer.

  Any issues observed during the system inspections were noted and promptly resolved.

  Additional Site activities included changing the oil in and lubricating the AS and SVE equipment and removing any moisture that may have accumulated in the process piping lines as needed.

- Regulatory Monitoring
  Monthly soil vapor samples were collected from the discharge side of the SVE process piping prior to release through the SVE stack. The samples were shipped via overnight delivery to Air Toxics Ltd laboratory in Folsom, California for TO-15 analyses. Results of the stack samples are provided in Table 2 and discussed in Section 3.2.1.

  Monthly aqueous samples were collected from the influent and effluent of the carbon adsorption units. These units are used to treat the water that was separated from the soil vapor by the SVE system and consist of two 200-pound carbon vessels filled with granular activated carbon (GAC). Results of this monitoring are provided in Table 3 and discussed in (Section 3.2.2).

- Exposure Monitoring
  Each month of operation, exposure monitoring was conducted at the six on-Site vapor probes. Vacuum measurements were recorded at VP-01 through VP-04, and pressure measurements, total VOCs, and methane were recorded at VP-05 and VP-06. Results of the exposure monitoring are provided in Table 4 and discussed in Section 3.3.1.

- Dynamic Performance Monitoring
  Every other month a handheld photoionization detector (PID) unit was used to record total VOCs at each SVE well. These monitoring results are to be used for system optimization during active treatment and are provided in Table 5 and discussed in Section 3.4.2.

- Air Flow Adjustments
  Every other month, flow, pressure, and vacuum were measured (as appropriate) at the AS and SVE wells to maintain compliance with the design criteria. Field conditions permitting, the AS and SVE wells were adjusted if they varied by more than 20% of their design flow (10 and 25 scfm, respectively). Air flow data for the wells is provided in Table 5 and Table 6.

3.0 2010 SYSTEM MONITORING AND O&M RESULTS

3.1 SYSTEM INSPECTIONS RESULTS

During routine monthly AS and SVE system O&M events, the following issues were noted during the Site visits:

- AS High Pressure: Injection rates below design specifications and elevated back pressures were observed during monthly O&M visits and attributed to silt buildup within the AS well risers and screens from the cycling of the AS groups (Table 6). To alleviate the issue, the following actions were completed in 2010:

    - AS well de-silting activities were conducted in March and April 2010. Select AS locations were jetted with water to flush loose silt from the riser and screen. The de-silting activities were moderately successful at increasing overall airflow in the AS component of the system and decreasing backpressure within the process piping over several months. Waste water and silt generated during the desilting event were collected in 55-gallon Department of Transportation (DOT) approved steel drums and shipped off-site as hazardous waste. Waste manifests are attached as Appendix B.

    - Despite completion of the well de-silting activities, loss of flow and increased back pressure were observed to increase during the O&M process monitoring conducted in the months of July and August,. In August 2010, check valves were installed on all the AS well heads to prevent pressure gradients from washing silt into the AS wells and process piping due to the cycling of the well groups. The addition of the check valves prevented further degradation of system performance during the 2010 operating season.

- Oil Leak: During the August 2010 O&M event, a minor oil leak (less than one pint of oil) was observed in one of the VOCTA air compressors and promptly repaired.

3.2 REGULATORY MONITORING

3.2.1 SVE Discharge Stack Sampling

During the 2010 operational period, compliance samples were collected from the SVE discharge and analyzed for VOCs via USEPA method TO-15 (see Table 2) at a minimum rate of one per month. The sampling results were used to confirm compliance with MASC and to quantify the performance of the system by estimating mass removal rates (further discussed in Section 3.4.3).

3.2.2 Carbon Treatment Aqueous Samples

As the soil vapor enters into the trailer through the process piping, condensate water is separated from the vapor via an air moisture separator (AMS). The moisture fraction is then treated for

VOCs via two GAC vessels prior to discharge back into the landfill subsurface through a drywell adjacent to the equipment container.

During the monthly O&M visits, aqueous samples were collected from a sample port in the water line prior to and after the first of two GAC vessels. The samples were analyzed for VOCs via USEPA method 8260B at Analytics Environmental Laboratory in Portsmouth, NH, and the results are presented in Table 3. Analytical sample results are used to ensure that process water that is re-injected back into the landfill is unimpacted with COCs and to determine when the activated GAC needs replacement. VOC effluent sampling results were below laboratory reporting limits for discharge sample results through the beginning of October 2010. VOC effluent sampling results from the end of October and middle of November suggested that 1,4-dioxane had experienced breakthrough on the first activated carbon vessel. Prior to system operation in 2011, the spent GAC in the first vessel will be replaced with virgin carbon. GAC in the second vessel will remain in place to protect against the potential for breakthrough VOCs being injected back into the landfill refuse.

3.3 EXPOSURE MONITORING

3.3.1 Vapor Probes

Exposure monitoring was conducted at the six vapor probes (VP-01 through VP-06) to determine the potential for off-Site migration of soil vapor.

Vacuum monitoring was conducted at vapor probes VP-01 through VP-04 (Table 4 and Figure 4) to confirm that sparge air is captured by the SVE system. In addition to vacuum monitoring at VP-01 through VP-04, VOC/methane monitoring was conducted at VP-05 and VP-06 to ensure that soil vapor does not migrate north toward residences located along Tolend Road. Pressure/vacuum measurements at VP-01 through VP-06 were either under vacuum or representative of atmospheric conditions, indicating that there was no off-Site migration risk.

3.3.2 Tolend Road Samples

As per the work plan, off-Site exposure monitoring was conducted three times annually and consisted of:

- a baseline air sample collected to determine background conditions prior to the seasonal system startup; and
- air samples collected 1 week and 3 months after active treatment was initiated for comparison to applicable NHDES AALs.

Analytical results of the air samples are presented in (Table 7). No VOCs were detected above laboratory reporting limits in the baseline sample collected in April 2010. Toluene was detected at 1 part per billion by volume (ppbv) in the air sample collected 1 week after initiation of active treatment (in April 2010). Tetrahydrofuran (THF) was detected at 24 ppbv in the ambient air sample collected 3 months after initiation of active treatment (July 22, 2010). All analytical results were below NHDES ambient air limits (AALs).

3.4 PERFORMANCE MONITORING

Performance monitoring was conducted to ensure that the AS and SVE system is effectively reducing VOC concentrations in the NWLFRA ground water within the US unit and to reduce impacts to surface water in the northern drainage ditch and quantify the mass of COCs removed by the system. Water quality in the northern drainage ditch is monitored as a component of the Environmental Monitoring Plan (EMP) conducted twice annually by others.

3.4.1 Ground Water Sampling Results

3.4.1.1 System Performance

Over the past two operating seasons, the AS and SVE system has been effective at reducing ground water concentrations in the US target interval. As presented on Table 8 and 9:

- the majority (109 out of 208) of recurring ground water sampling location COCs have seen significant declines in concentrations since active treatment was initiated in 2009;
- an additional 84 recurring ground water sampling location COCs have no concentration trend, primarily due to low baseline levels prior to active treatment in 2009.
- a total of 15 COCs at the recurring ground water sampling locations suggest limited influence by the treatment system.

The most significant ground water COC concentration reductions have been for petroleum compounds (toluene, ethylbenzene, and xylenes) (Figure 3 and Table 9), likely due to the additional treatment of aerobic biodegradation with the physical stripping process provided by the AS system.

Of the increasing trends presented in Table 9, the majority are associated with ground water monitoring location GW-1. The increasing trends are likely due to the reduced injection rates associated with the AS wells in the immediate vicinity. The remaining increasing trends are primarily associated cis-DCE and VC. The increasing trends for these particular compounds suggest that reductive dechlorination of PCE, TCE, and cis-DCE due to the heterogeneous distribution of air in the subsurface may be responsible for their accumulation. It is expected that increasing cis-DCE and VC impacts may decrease once the PCE and TCE parent compounds have been significantly reduced in the US.

To address areas where the system has been less effective, a phased AS well replacement program will be implemented in 2011 (discussed further in Section 4.3.3).

Figure 5 through Figure 8 presents the geographic distribution of select COC impacts (PCE, cis-DCE, VC, and toluene) in the US target interval within the VOCTA before and after the seasonal baseline and post-operational ground water sampling.

Operation of the AS and SVE system has resulted in significant reductions in the extent and magnitude of the chlorinate VOCs PCE (Figure 5), cis-DCE (Figure 6), and VC (Figure 7) within the US interval. The most dramatic reductions are associated with PCE and VC. While cis-DCE concentrations have declined significantly, the overall extent of impacts in 2010 is

similar to baseline sampling results from 2009. cis-DCE is expected to be one of the least efficiently treated CVOCs due to:

- a lower Henry's Law coefficient;
- minimal degradation under aerobic conditions; and
- elevated initial concentrations relative to other COCs.

The extent of VC concentrations has been reduced significantly (Figure 7), with elevated post-2010 operation ground water concentrations (discussed above) near the GW-1 ground water monitoring location.

Toluene concentrations within the US target interval have been significantly reduced from the 2009 ground water baseline sampling results (Figure 8). Remaining toluene concentrations in the US are primarily associated with the four sampling locations AS-05D, AS-16C, AS-22D, and GW-1. These remaining areas with toluene concentrations will be targeted during the 2011 operating season.

Surface water sampling results collected twice annually within the northern perimeter ditch as a component of the EMP show significant decreases at location SW-E [Environmental Monitoring Plan and Groundwater Management Permit First Monitoring Event (Spring), Year 2010]. COC concentrations in November 2009 and May 2010 are approximately one fifth of historical analytical results (pre-2009).

3.4.2 Soil Vapor Sampling

Soil vapor samples were collected at select SVE wells during baseline monitoring activities to establish static VOC concentrations to assist in balancing air flow in the AS and SVE system during the operating season. Analytical results are presented in Table 10.

Dynamic performance monitoring (during active remediation) was performed following the initial system start-up and every second month thereafter. Dynamic performance monitoring consisted of field measurements of total VOCs at all the SVE wells (using a handheld PID) for system optimization. SVE performance monitoring results are presented in Table 5.

3.4.3 SVE Discharge Vapor Monitoring

- Optimization completed in June of 2010 resulted in a significant increase in the efficiency of the system (Figure 9), approximately doubling the estimated mass removal rate as measured from the SVE discharge from three to greater than six pounds per hour.
- Generally, combined AS and SVE removal rates between individual compounds are temporally consistent, with PCE and toluene comprising the majority of the total mass removed (Figure 10 and 11).

During the 2010 operational season (April to November 2010), the AS and SVE system removed an estimated 22,525 pounds (lbs) of COCs, making the total mass removal for 2009 and 2010 over 40,000 pounds. Refer to Table 11 for a breakdown of the mass removal for each constituent, as well as approximate daily removal rates calculated from the monthly SVE performance monitoring results.

4.0 2011 SYSTEM OPERATION, MAINTENANCE & MONITORING

4.1 GENERAL OPERATIONS AND MAINTENACE

Baseline sampling will be scheduled for in March 2011. The AS and SVE system will operate approximately from April 2011 to November 2011. The initial AS and SVE operational design will be the same as in 2010. Seasonal post treatment sampling will occur approximately 1 month after the seasonal system shutdown.

4.2 2011 SYSTEM OPERATION MODIFICATIONS

The following operational modifications will be incorporated for the 2011 operational season, in addition to those presented in the 2009 annual report

4.2.1 Photo-Ionization Detector Dynamic Field Sampling

The work plan specifies that a dynamic field measurements for total VOCs be collected at each of the SVE wellheads at a frequency of once every two months. Field observations indicate that photo-ionization detector (PID) readings during active operations are easily interfered with by water vapor within the SVE process stream. The interference caused by the vapor reduces the accuracy of the field measurements. Therefore, the frequency of total VOC measurements at the SVE well heads will be changed from once every two months to an as-needed basis and before SVE well optimization is performed.

4.3 PERFORMANCE OPTIMIZATION

4.3.1 AS Group Cycling Frequency

As specified in the work plan, the AS wells within the VOCTA are operated using four wells groups (Figure 3). The system was designed to rotate 2 hours of active sparging between the four groups (i.e., the four groupings operate for 2 hours at a time in succession, each with 6 hours of rest before cycling on again). Since the mass transfer rate of COCs from the aqueous to vapor phase is predicted to decrease during each of the individual 2 hour sparge intervals, the cycling frequency (and therefore efficiency of the system) will be increased so that the each of the four groupings operate for a maximum of 1 hour at a time in succession.

4.3.2 Additional AS and SVE Discharge Sampling

To further assess the relative contribution of the US versus vadose zone COC concentrations to the estimated mass removal rates, a field test will be conducted twice during the 2011 operational season. The field test will consist of the following steps:

- the SVE will be operated for approximately 1 week without active air sparging;
- a vapor sample will be collected from the SVE discharge and sent for laboratory analysis via modified USEPA Method TO-15;

- after sample collection, the AS system will be operated in conjunction with the SVE system;
- after approximately 1 week of AS and SVE operation, an additional vapor sample will be collected from the SVE discharge and sent for laboratory analysis via modified USEPA Method TO-15; and
- the laboratory results from the two samples will then be compared to determine the relative contribution of each system to the total discharge concentrations.

The above procedure will be conducted during system startup activities and repeated after approximately two months of operation to determine if the relative contribution to the discharge varies over the course of the operational season. The results of the additional sampling will be used to aid optimization of the AS and SVE system for the second half of the 2011 operating season.

4.3.3 AS Well Replacement

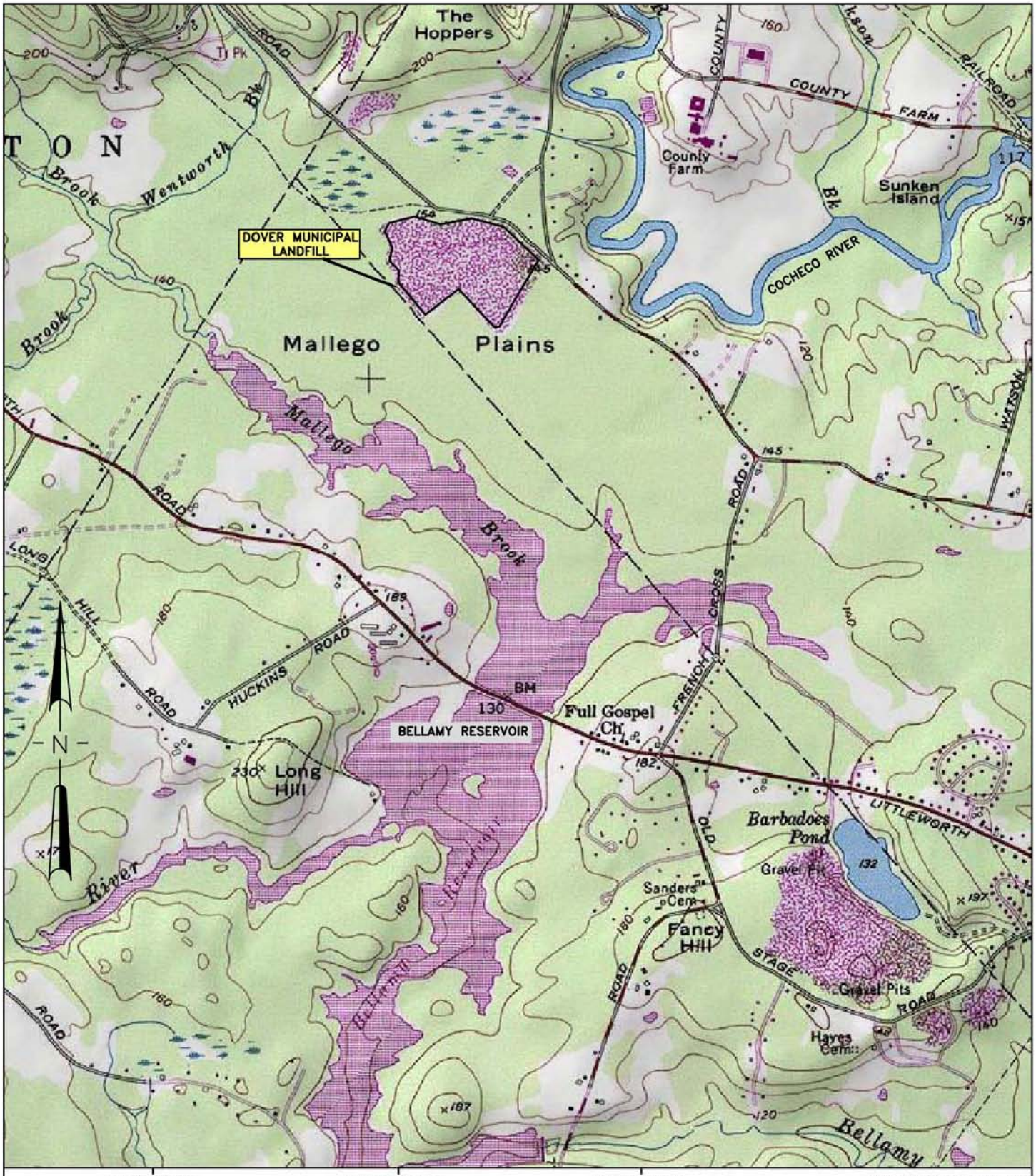
As presented in Section 3.1, poor AS performance has been observed near GW-1 (low injection rates and high back pressure at nearby AS wells, in conjunction with increasing trends for several CVOCs). Therefore, a phased AS replacement program will be implemented in the beginning of the 2011 operation season. Initially, approximately eight of the AS wells will be reinstalled in the vicinity of GW-1. The AS wells to be replaced is in the process of being developed.

The re-installed AS locations will include a "sump" below the screened interval to collect any silt that might otherwise deposit within the well riser. The new AS wells will be monitored to determine is AS flow rates degrade over time. If the new AS wells are determined to be effective for the first few months of operation in 2011, additional poorly performing AS wells may also be replaced.

4.3.4 Maximizing Treatment Efficiency

For the first month of the 2011 operating season, the AS and SVE system operated according to the flow optimization completed in June 2010 (to confirm the SVE discharge is below the MASC). In May of 2011, the system will be optimized to maximum VOC mass removal, by increasing AS and SVE flow rates at wells installed in the northern half of the VOCTA. Special emphasis will be placed on maximizing removal rates for the AS locations in the vicinity of GW-1.

FIGURES



340000m E. 341000m E. 342000m E. WGS84 Zone 19

0 .5 1 MILE

0 1000 FEET 0 500 1000 METERS

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

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SCALE: AS SHOWN	TITLE: SITE LOCATION MAP DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: APRIL 9, 2007	
PROJECT NO.: 84411	
CLIENT: DOVER PRP GROUP	
DRAWN BY: DK	DRAWING NO. FIGURE 1
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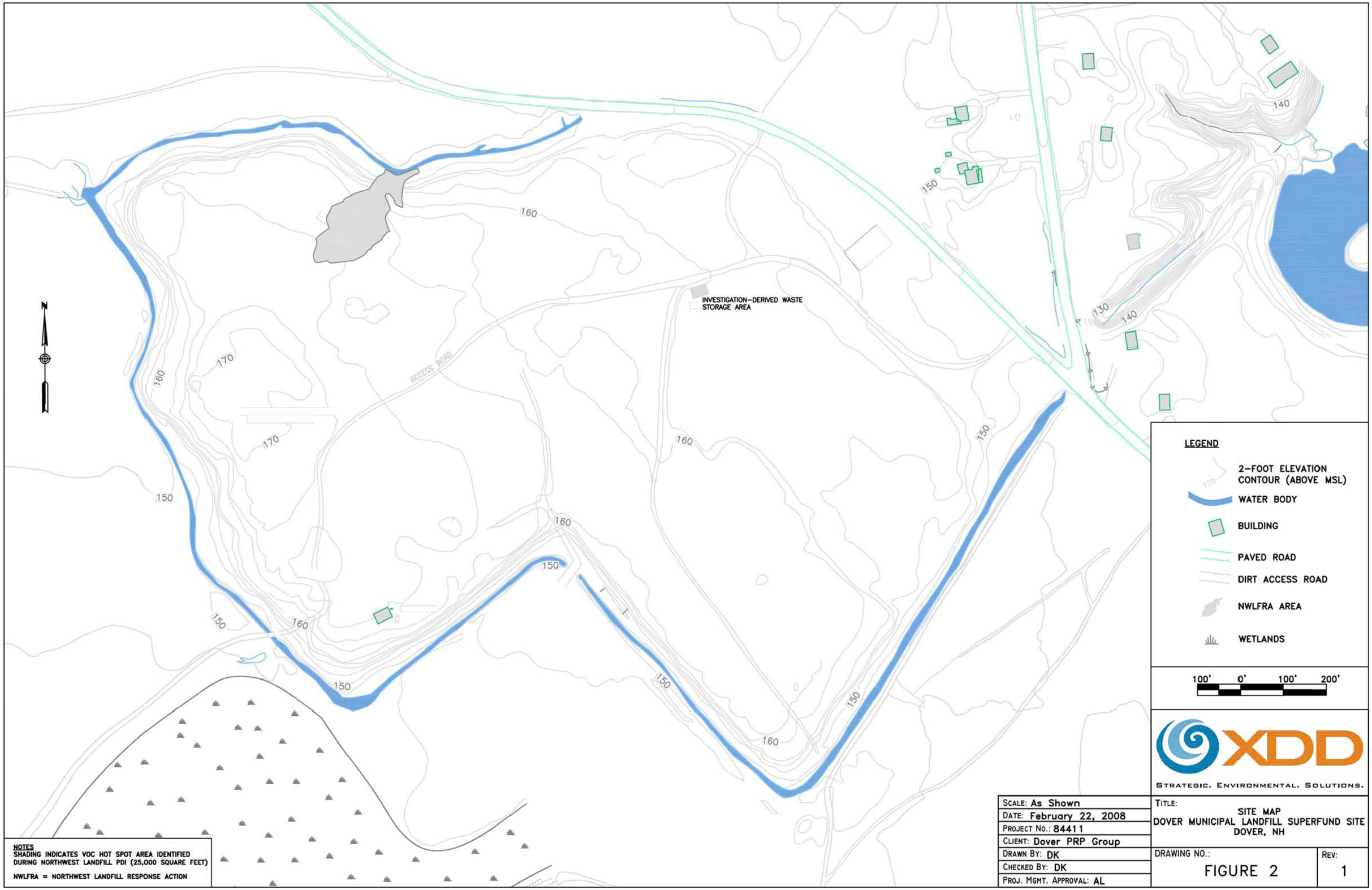
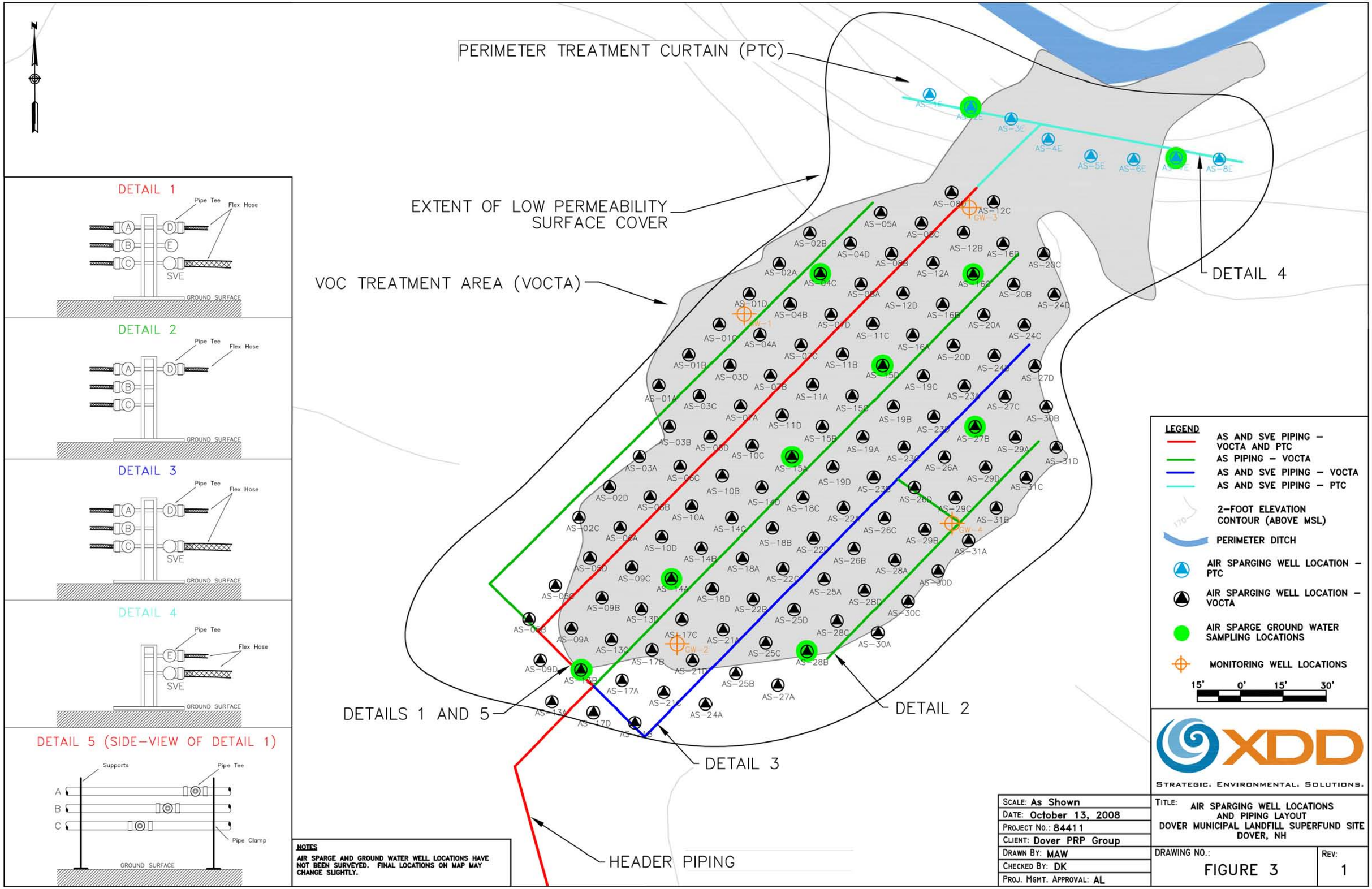
PROJ. MGMT. APPROVAL: AL	



NOTES
SHADING INDICATES VOC HOT SPOT AREA IDENTIFIED DURING NORTHWEST LANDFILL PDI (25,000 SQUARE FEET)

NWLFRA = NORTHWEST LANDFILL RESPONSE ACTION



NOTES

AIR SPARGE AND GROUND WATER WELL LOCATIONS HAVE NOT BEEN SURVEYED. FINAL LOCATIONS ON MAP MAY CHANGE SLIGHTLY.

EXTENT OF LOW PERMEABILITY SURFACE COVER

DETAILS 3 AND 4

DETAIL 1

HEADER PIPING

DETAIL 2

SVE-01
SVE-02
SVE-03
SVE-04
SVE-05
SVE-06
SVE-07
SVE-08
SVE-09
SVE-10
SVE-11
SVE-12
SVE-13
SVE-14
SVE-15
SVE-16
SVE-17
SVE-18
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SVE-25
SVE-26
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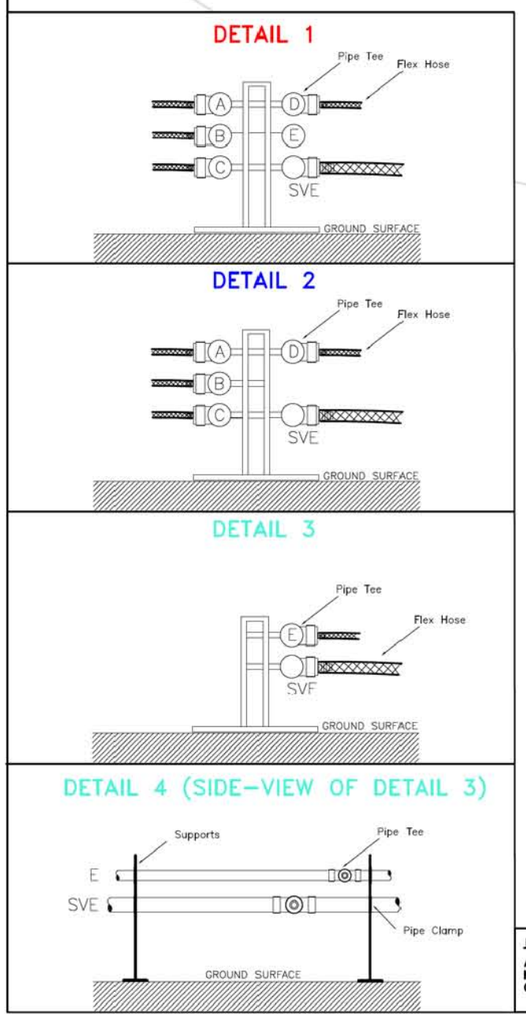
VP-1
VP-2
VP-3
VP-4
VP-5
VP-6



LEGEND

- SVE PIPING – VOCTA AND PTC
- SVE PIPING – VOCTA
- SVE PIPING – PTC
- AS PIPING – VOCTA AND PTC
- 2-FOOT ELEVATION CONTOUR (ABOVE MSL)
- PERIMETER DITCH
- SOIL VAPOR EXTRACTION WELL LOCATION – PERIMETER TREATMENT CURTAIN
- SOIL VAPOR EXTRACTION WELL LOCATION – VOC TREATMENT AREA
- SOIL VAPOR EXTRACTION WELL SAMPLING LOCATIONS
- VAPOR PROBE LOCATIONS

15' 0' 15' 30'

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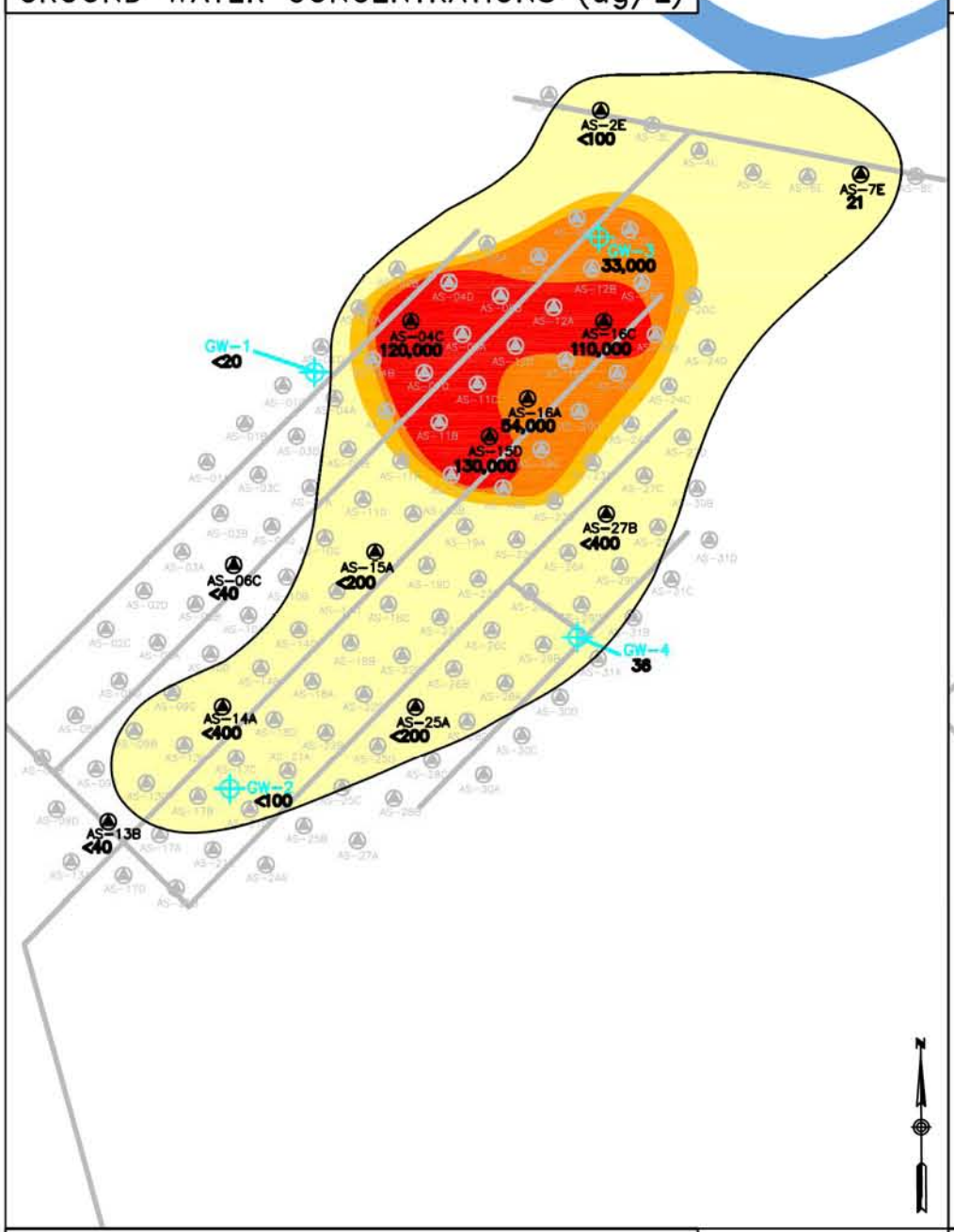
NOTES

AIR SPARGE AND GROUND WATER WELL LOCATIONS HAVE NOT BEEN SURVEYED. FINAL LOCATIONS ON MAP MAY CHANGE SLIGHTLY.

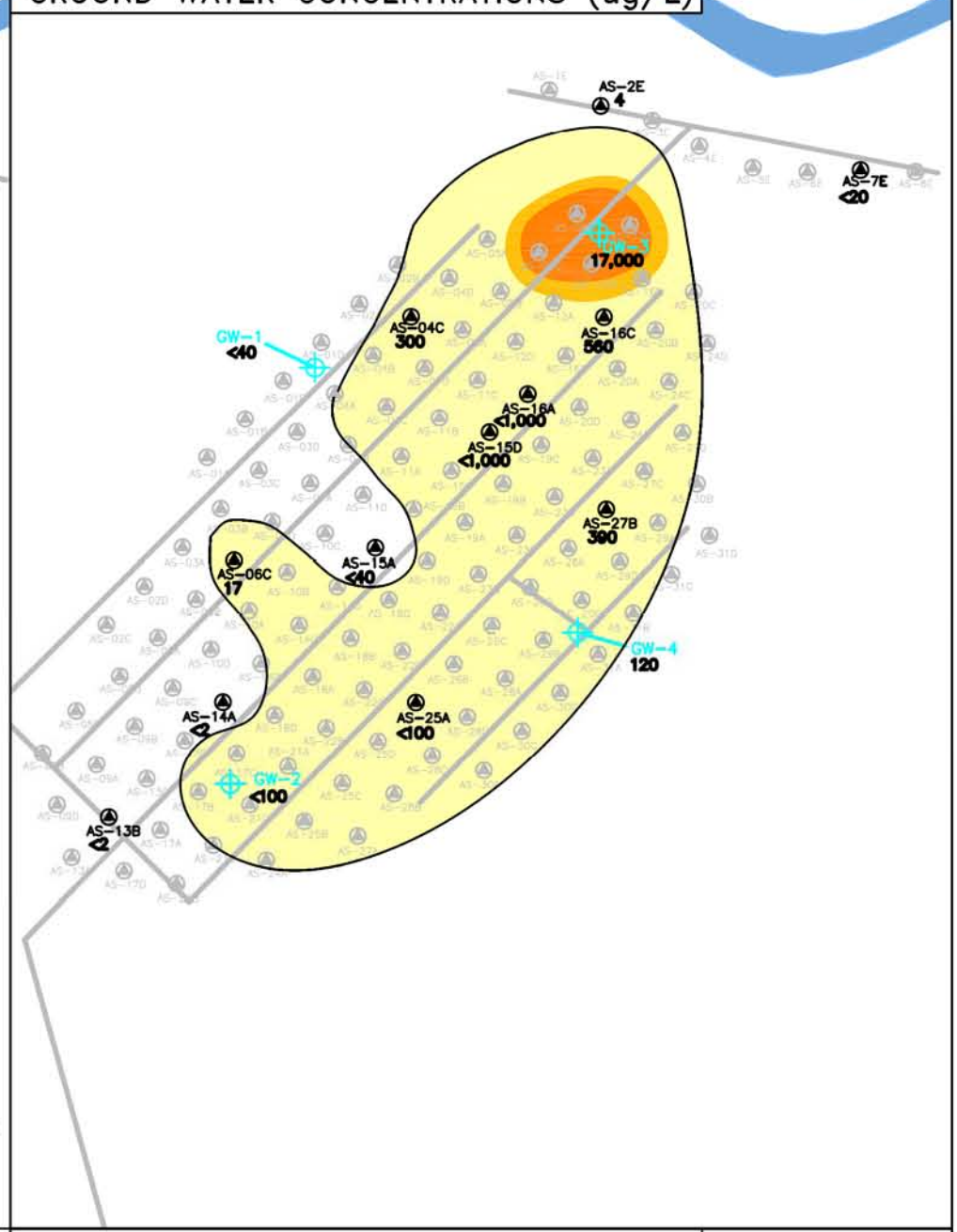
SCALE: As Shown	TITLE: SOIL VAPOR EXTRACTION WELL LOCATIONS AND PIPING LAYOUT DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: October 13, 2008	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: AG	DRAWING NO.: FIGURE 4
CHECKED BY: DK	REV: 2
PROJ. MGMT. APPROVAL: AL	

BASELINE MARCH 2009
GROUND WATER CONCENTRATIONS (ug/L)

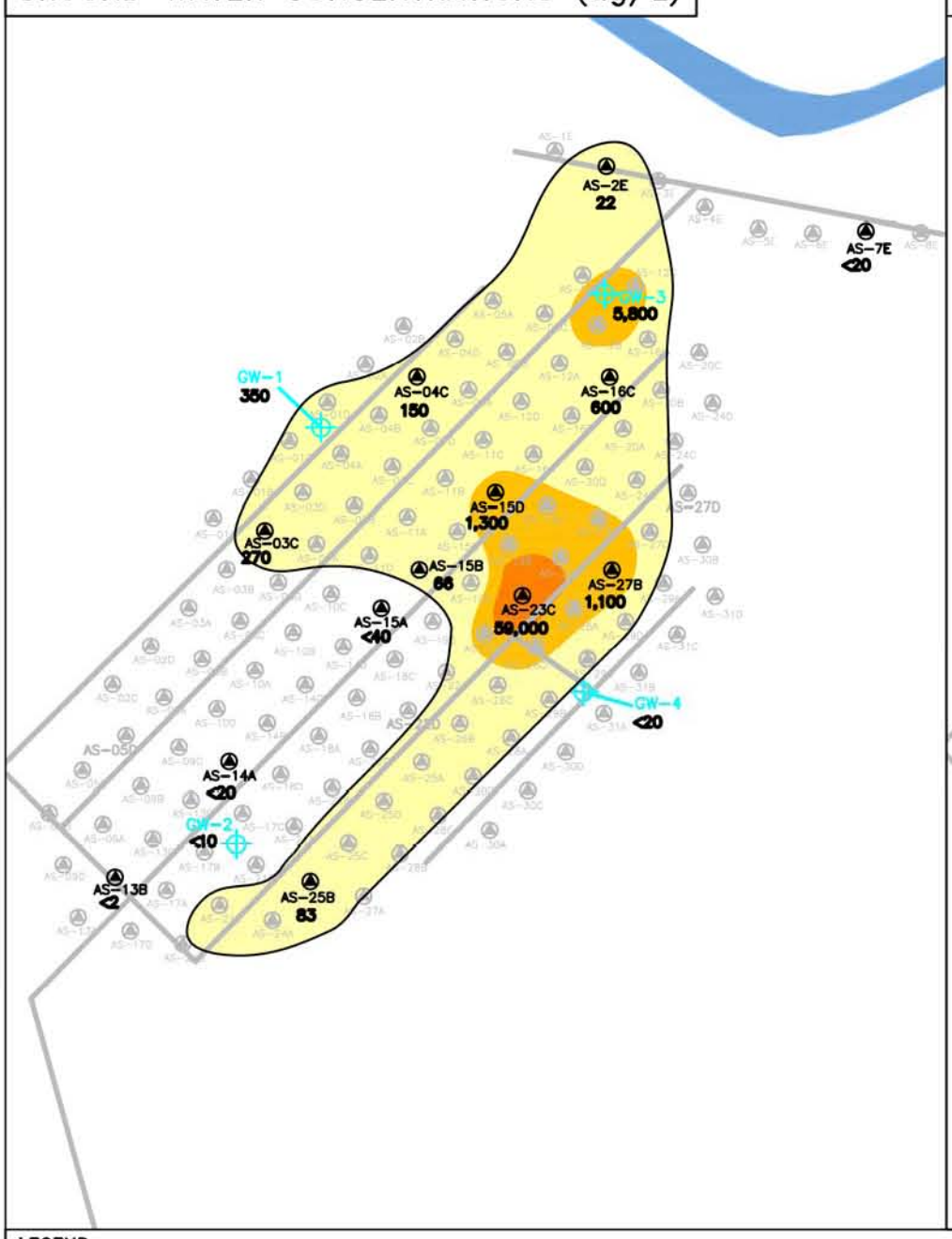


POST-TREATMENT DECEMBER 2009
GROUND WATER CONCENTRATIONS (ug/L)

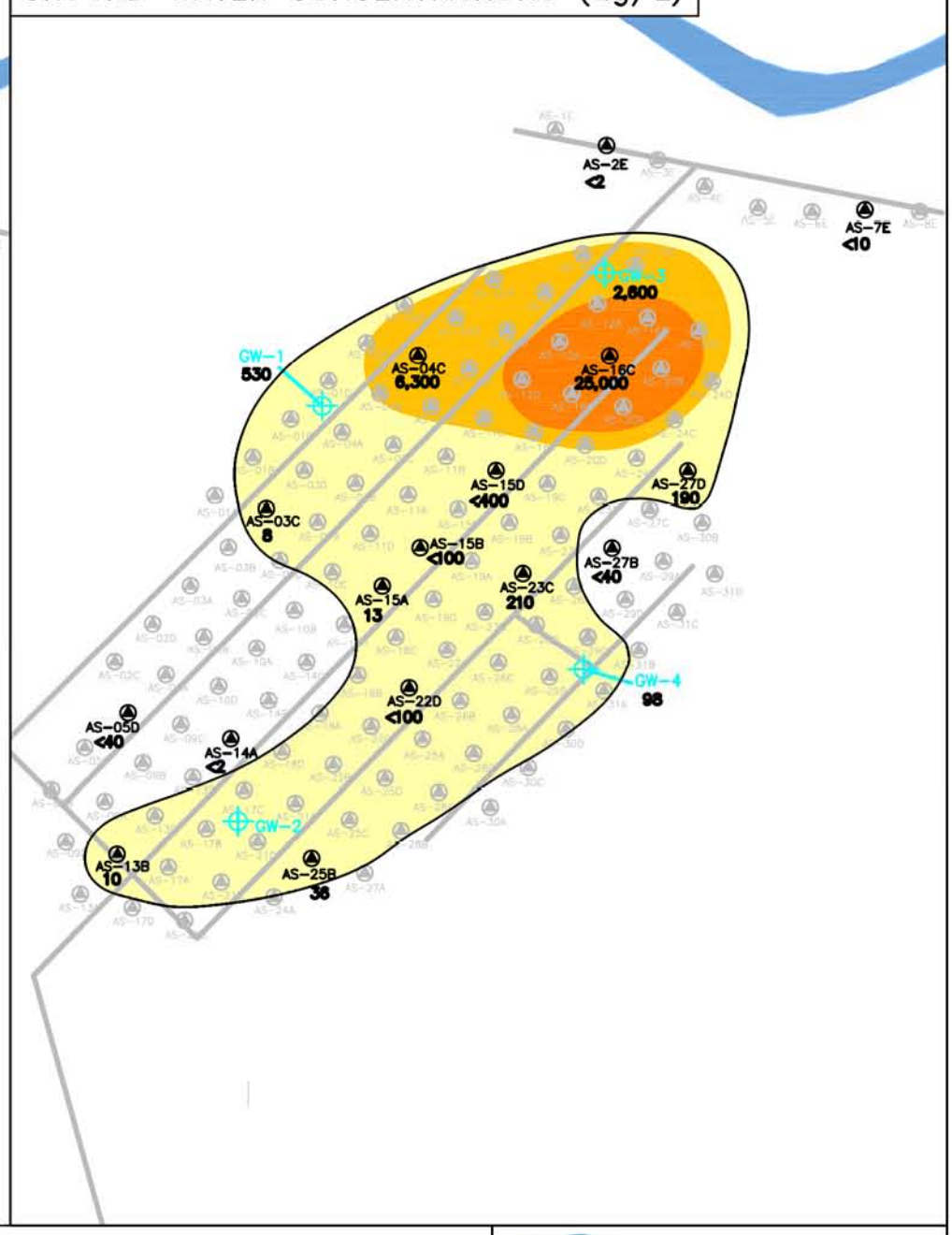
DRAFT



BASELINE MARCH 2010
GROUND WATER CONCENTRATIONS (ug/L)



POST-TREATMENT DECEMBER 2010
GROUND WATER CONCENTRATIONS (ug/L)



LEGEND

- AS AND SVE PIPING
- AIR SPARGING WELL LOCATION
- MONITORING WELL LOCATION
- SOIL VAPOR EXTRACTION LOCATION
- VAPOR POINT MONITORING LOCATION

1,100 PCE GROUND WATER CONCENTRATION

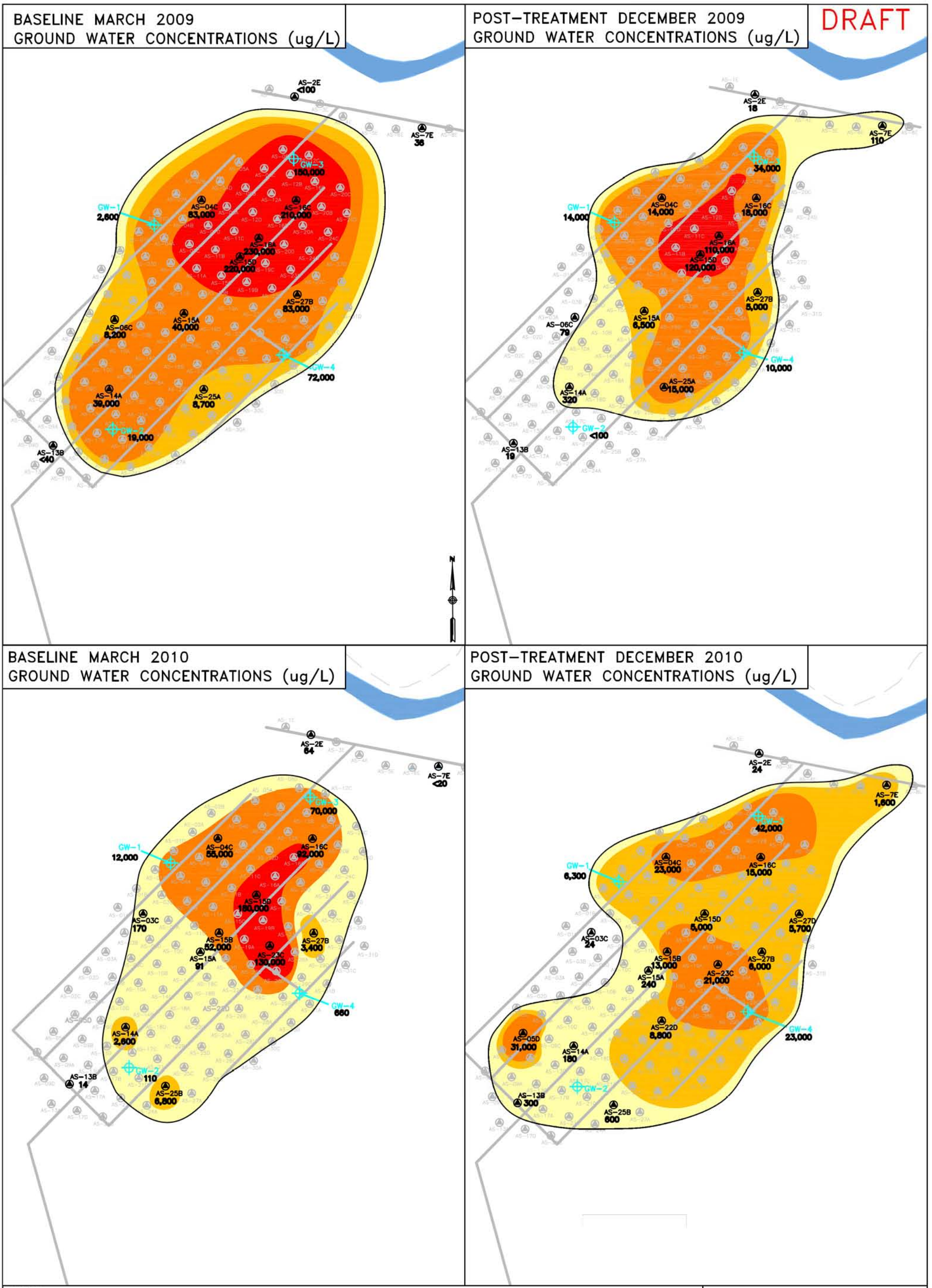
- >100,000
- >10,000
- >1,000
- >5 ug/L

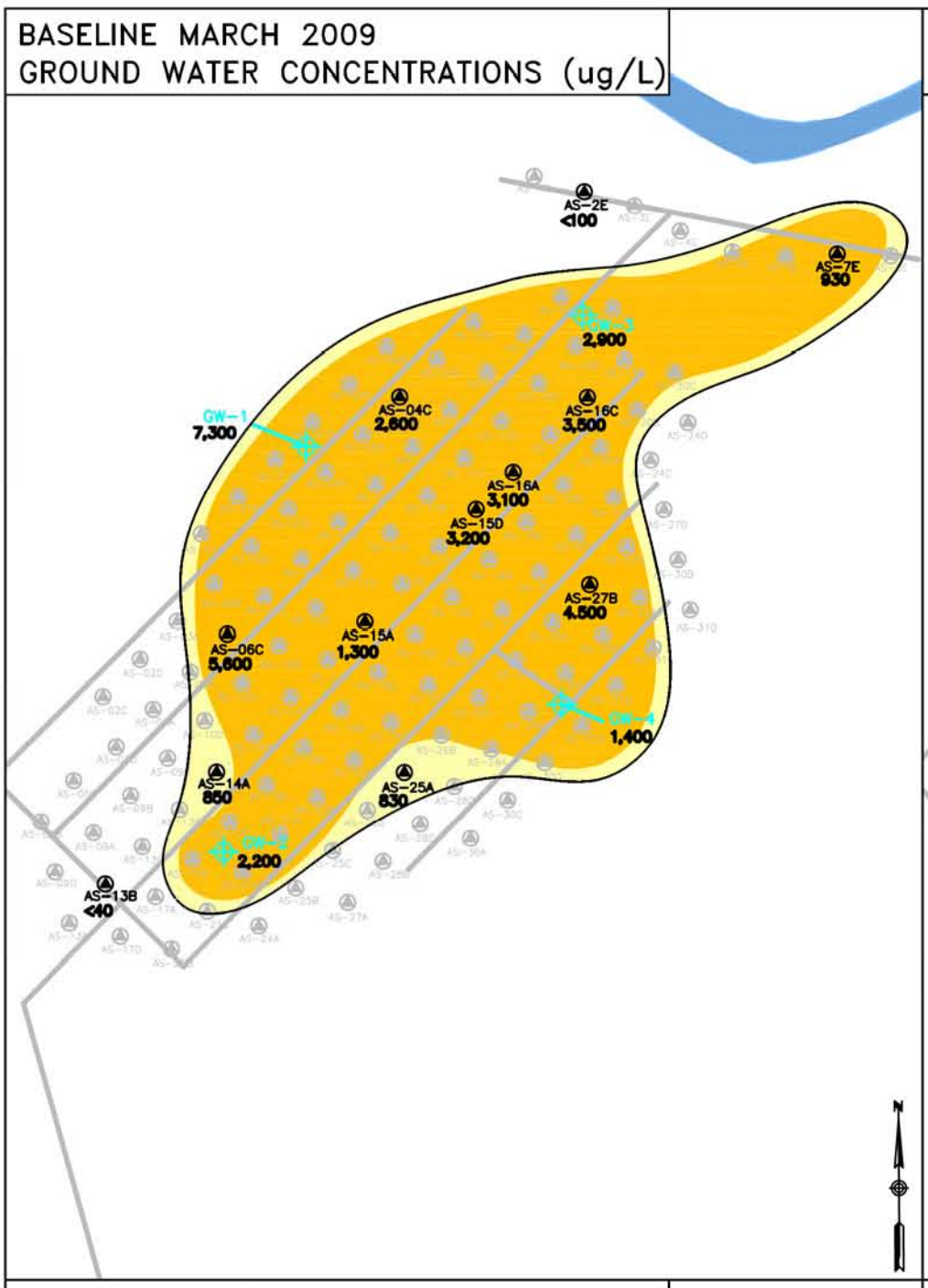
NOTES: ug/L = MICROGRAMS PER LITER
PCE = TETRACHLOROETHENE

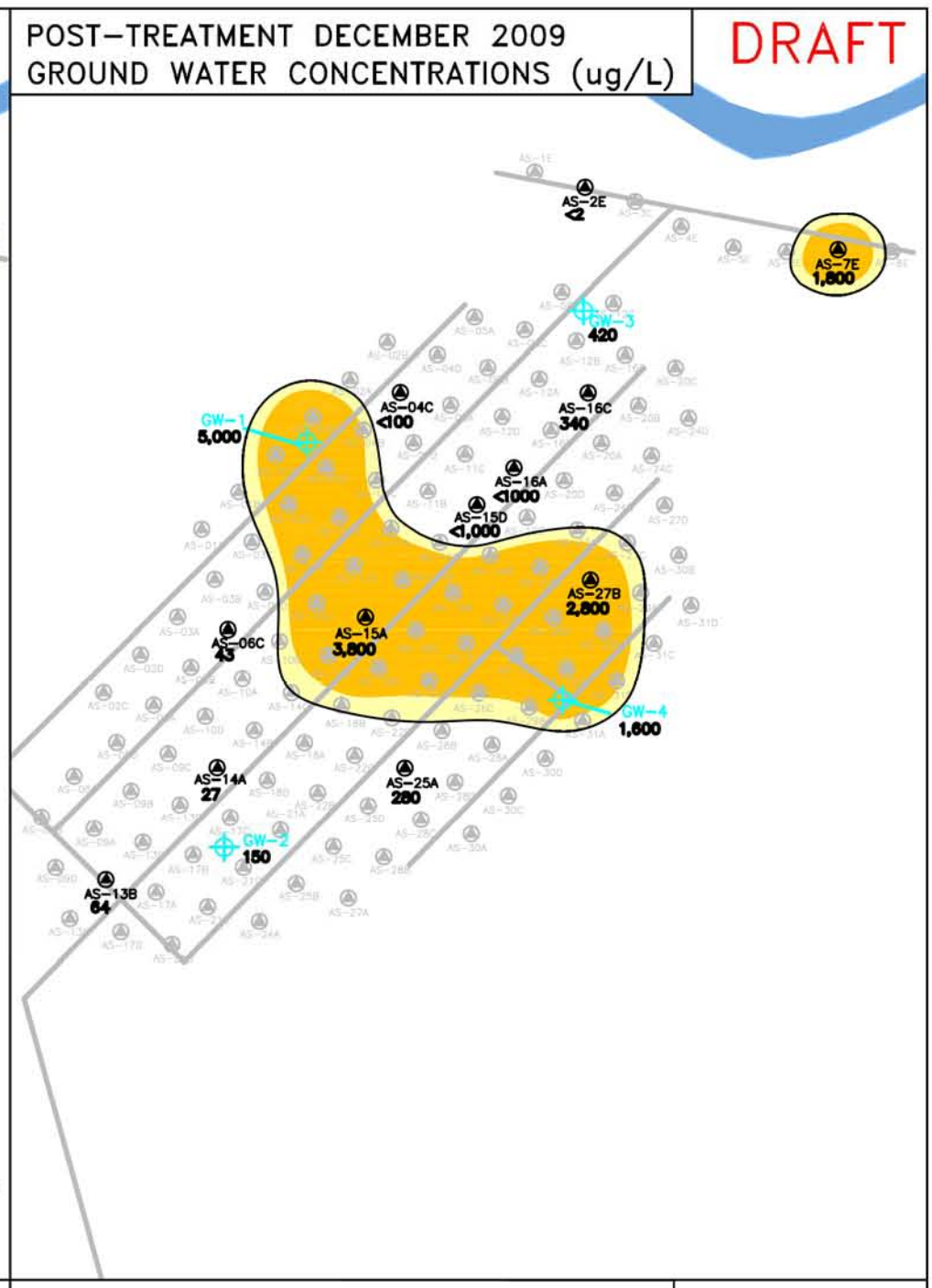
25' 0' 25' 50'

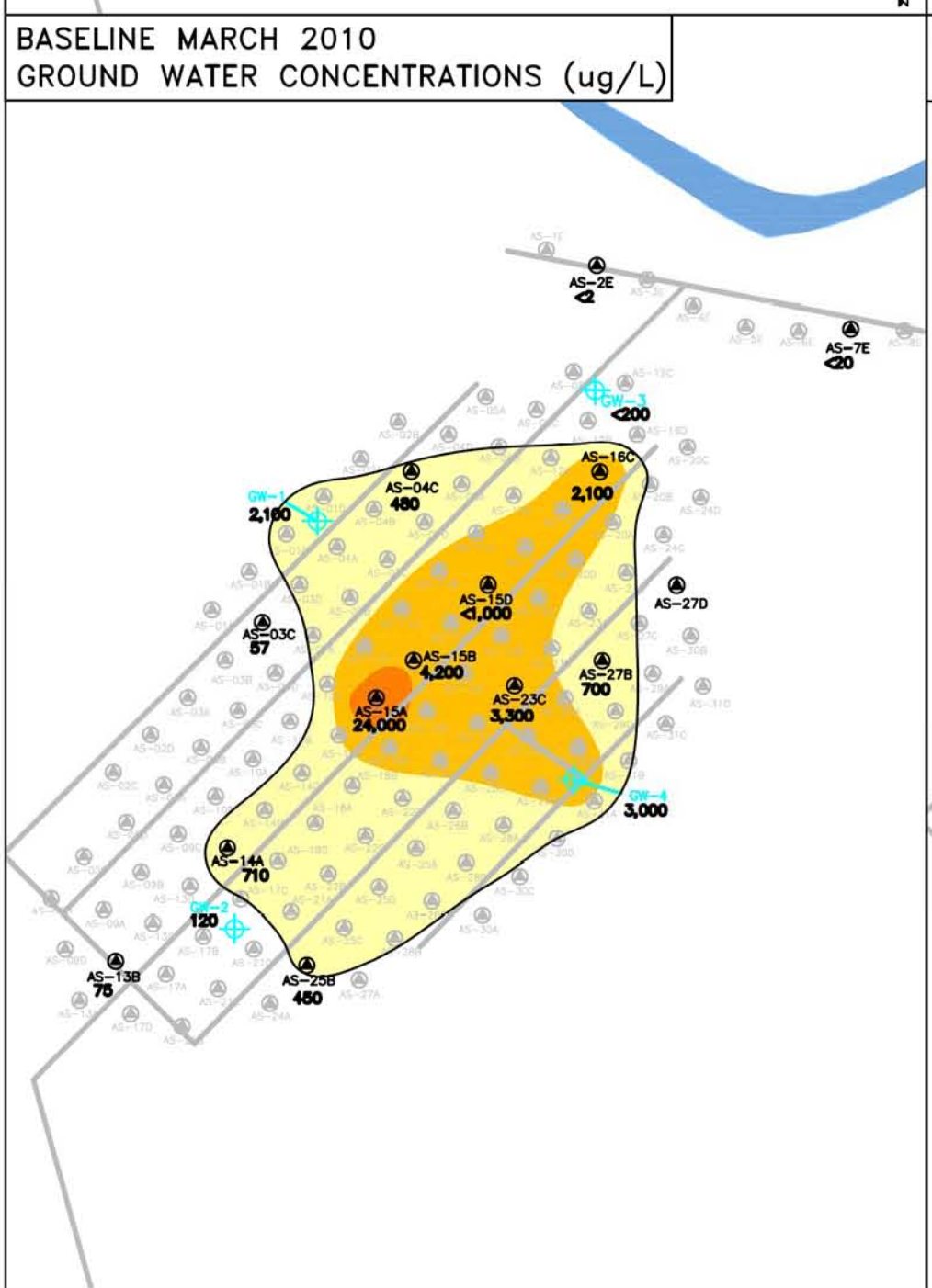
XDD
STRATEGIC. ENVIRONMENTAL. SOLUTIONS.

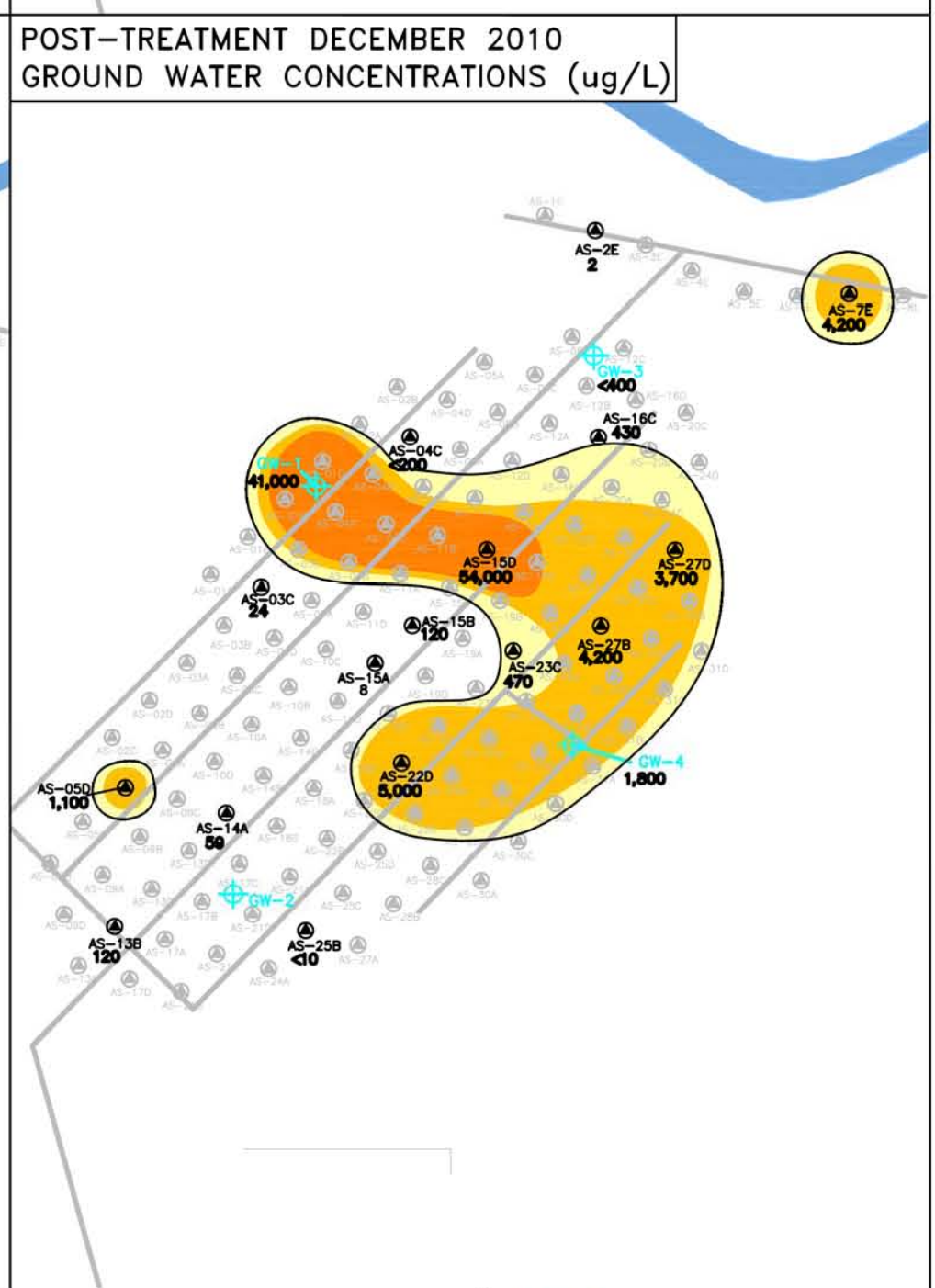
SCALE: As Shown	TETRACHLOROETHENE GROUND WATER CONCENTRATIONS IN THE US DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: February 7, 2011	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: JWH	DRAWING NO.: FIGURE 5
CHECKED BY: ELS	REV: 1
PROJ. MGMT. APPROVAL: DK	


BASELINE MARCH 2009
GROUND WATER CONCENTRATIONS (ug/L)
POST-TREATMENT DECEMBER 2009
GROUND WATER CONCENTRATIONS (ug/L)
DRAFT
AS-2E <100
AS-7E 36
GW-3 150,000
GW-1 2,600
AS-04C 83,000
AS-16C 210,000
AS-16A 230,000
AS-15D 220,000
AS-27B 83,000
AS-06C 8,200
AS-15A 40,000
GW-4 72,000
AS-14A 39,000
AS-25A 8,700
GW-2 19,000
AS-13B <40
AS-2E 18
AS-7E 110
GW-3 34,000
GW-1 14,000
AS-04C 14,000
AS-16C 18,000
AS-16A 110,000
AS-15D 120,000
AS-27B 5,000
AS-06C 79
AS-15A 6,500
GW-4 10,000
AS-25A 15,000
AS-14A 320
GW-2 <100
AS-13B 19
BASELINE MARCH 2010
GROUND WATER CONCENTRATIONS (ug/L)
POST-TREATMENT DECEMBER 2010
GROUND WATER CONCENTRATIONS (ug/L)
AS-2E 64
AS-7E <20
GW-3 70,000
GW-1 12,000
AS-04C 55,000
AS-16C 92,000
AS-15D 160,000
AS-03C 170
AS-15B 52,000
AS-15A 91
AS-23C 130,000
AS-27B 3,400
GW-4 660
AS-14A 2,600
GW-2 110
AS-13B 14
AS-25B 6,800
AS-2E 24
AS-7E 1,600
GW-3 42,000
GW-1 6,300
AS-04C 23,000
AS-16C 15,000
AS-15D 5,000
AS-27D 5,700
AS-03C 24
AS-15B 13,000
AS-15A 240
AS-23C 21,000
AS-27B 6,000
AS-22D 8,800
GW-4 23,000
AS-05D 31,000
AS-14A 180
GW-2
AS-13B 300
AS-25B 600
LEGEND
AS AND SVE PIPING
AIR SPARGING WELL LOCATION
MONITORING WELL LOCATION
SOIL VAPOR EXTRACTION LOCATION
VAPOR POINT MONITORING LOCATION
1,100 cisDCE GROUND WATER CONCENTRATION
>100,000
>10,000
>1,000
>89 ug/L
NOTES: ug/L = MICROGRAMS PER LITER
cisDCE = cis-1,2-DICHLOROETHENE
25' 0' 25' 50'
XDD
STRATEGIC. ENVIRONMENTAL. SOLUTIONS.
SCALE: As Shown
DATE: February 8, 2011
PROJECT NO.: 84411
CLIENT: Dover PRP Group
DRAWN BY: JWH
CHECKED BY: ELS
PROJ. MGMT. APPROVAL: DK
cis-1,2-DICHLOROETHENE GROUND WATER CONCENTRATIONS IN THE US
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NH
DRAWING NO.: FIGURE 6
REV: 1









LEGEND

- AS AND SVE PIPING
- AIR SPARGING WELL LOCATION
- MONITORING WELL LOCATION
- SOIL VAPOR EXTRACTION LOCATION
- VAPOR POINT MONITORING LOCATION
- 3,200 VINYL CHLORIDE GROUND WATER CONCENTRATION

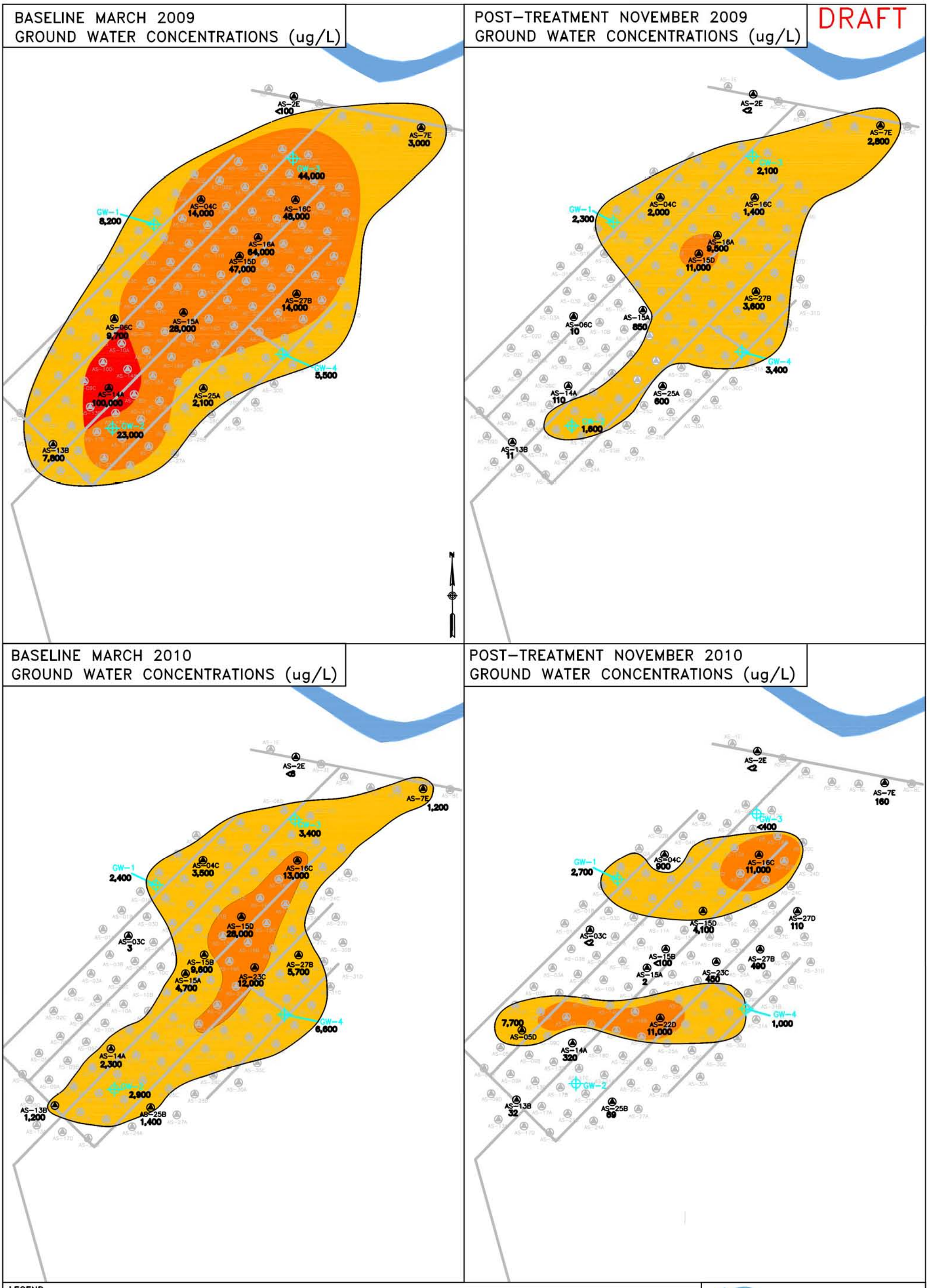
- >100,000
- >10,000
- >1,000
- >440 ug/L

NOTES: ug/L = MICROGRAMS PER LITER

25' 0' 25' 50'

XDD
STRATEGIC. ENVIRONMENTAL. SOLUTIONS.

SCALE: As Shown	VINYL CHLORIDE GROUND WATER CONCENTRATIONS IN THE US DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: February 8, 2011	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: JWH	DRAWING NO.: FIGURE 7
CHECKED BY: ELS	REV: 1
PROJ. MGMT. APPROVAL: DK	



LEGEND

- AS AND SVE PIPING
- AIR SPARGING WELL LOCATION
- MONITORING WELL LOCATION
- SOIL VAPOR EXTRACTION LOCATION
- VAPOR POINT MONITORING LOCATION
- 4,100 TOLUENE GROUND WATER CONCENTRATION

- >100,000
- >10,000
- >1,000

NOTES: ug/L = MICROGRAMS PER LITER

25' 0' 25' 50'

XDD
STRATEGIC. ENVIRONMENTAL. SOLUTIONS.

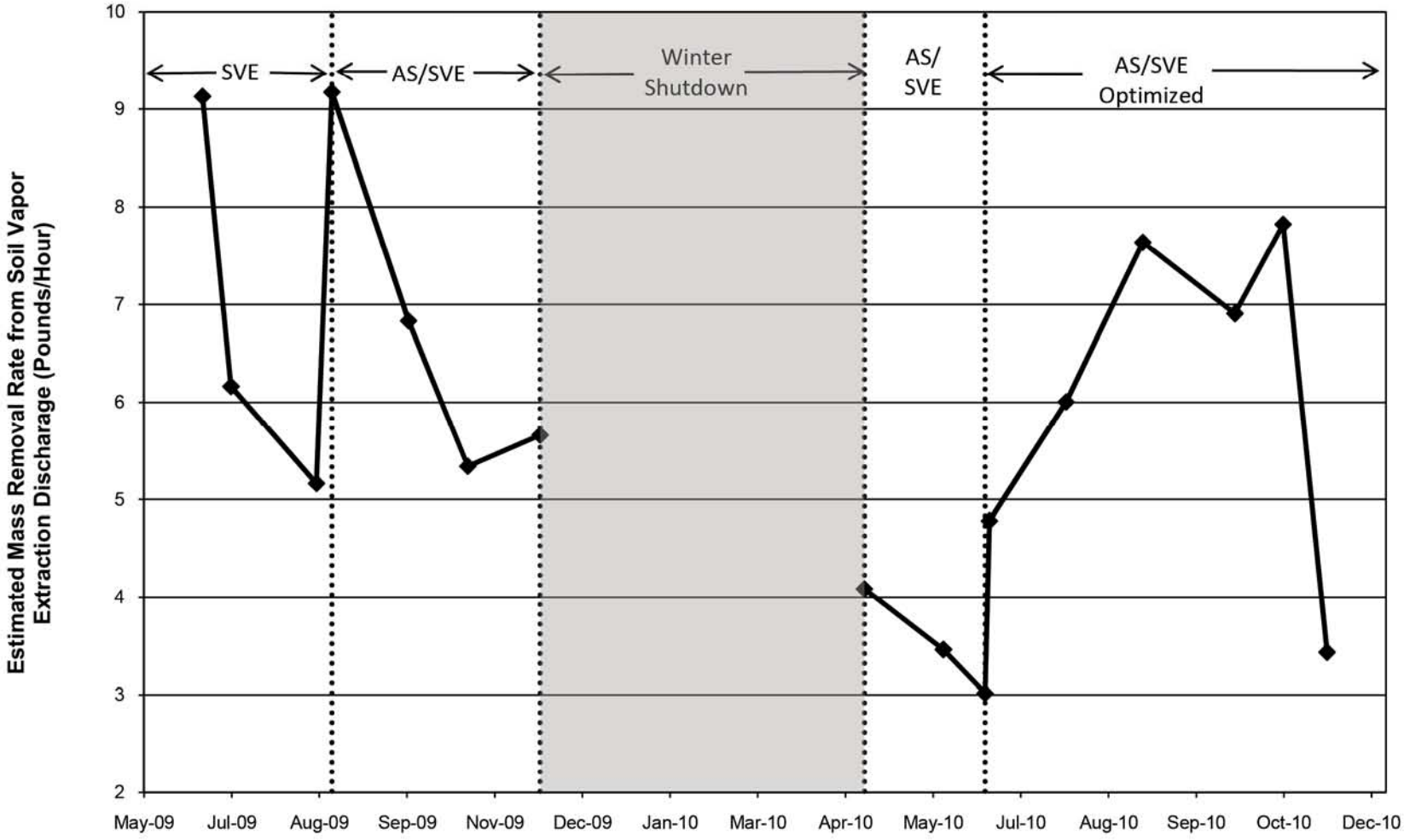
SCALE: As Shown	TOLUENE GROUND WATER CONCENTRATIONS IN THE US DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: February 8, 2011	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: JWH	DRAWING NO.: FIGURE 8
CHECKED BY: ELS	REV: 1
PROJ. MGMT. APPROVAL: DK	

DRAFT

Figure 9

Estimated Total VOC Mass Removal Rate versus. Time

Dover Municipal Landfill Superfund Site
Dover, NH

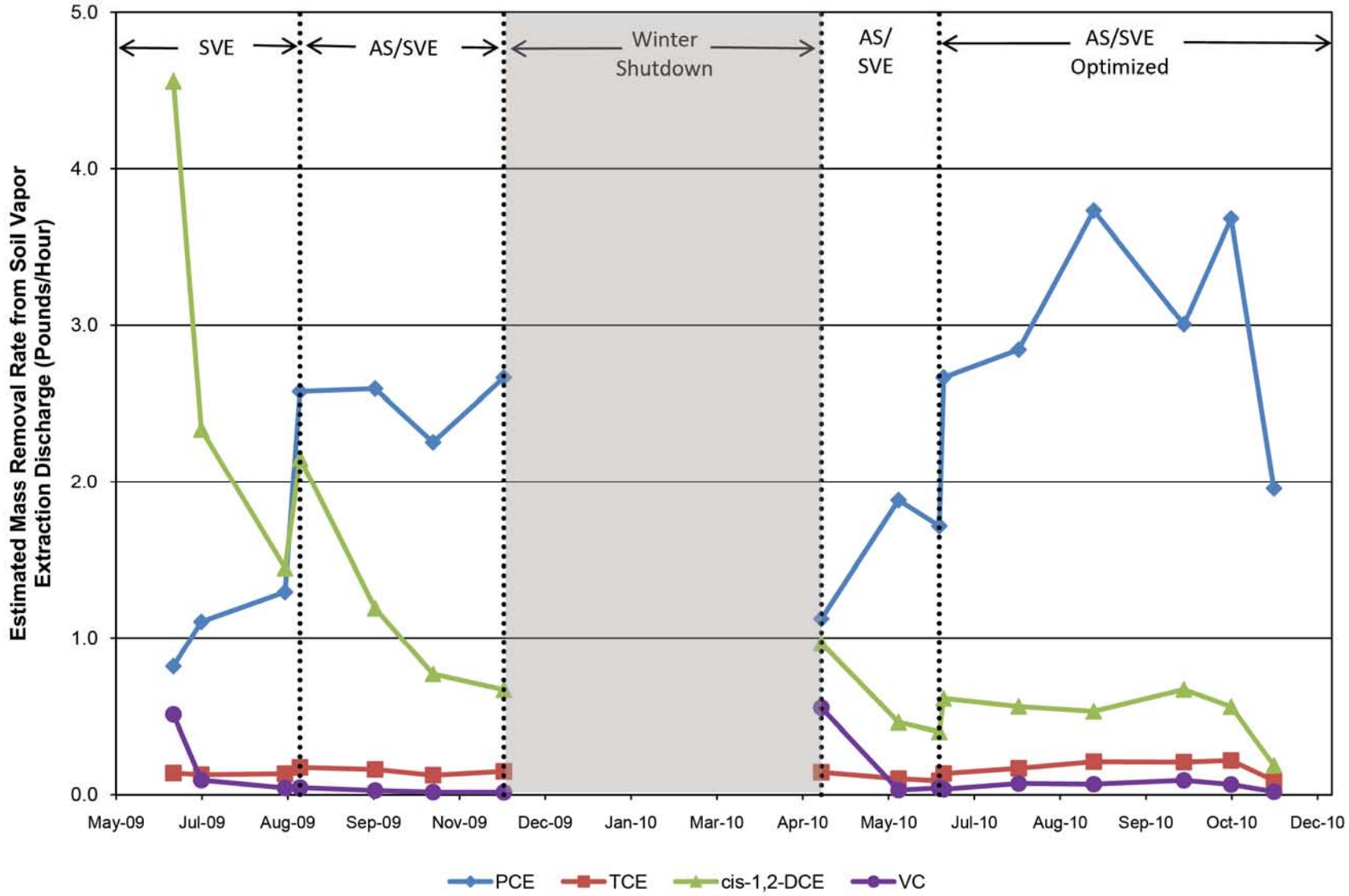


Notes:

1. AS = Air Sparge
2. SVE = Soil Vapor Extraction
3. VOC = Volatile Organic Compounds

DRAFT

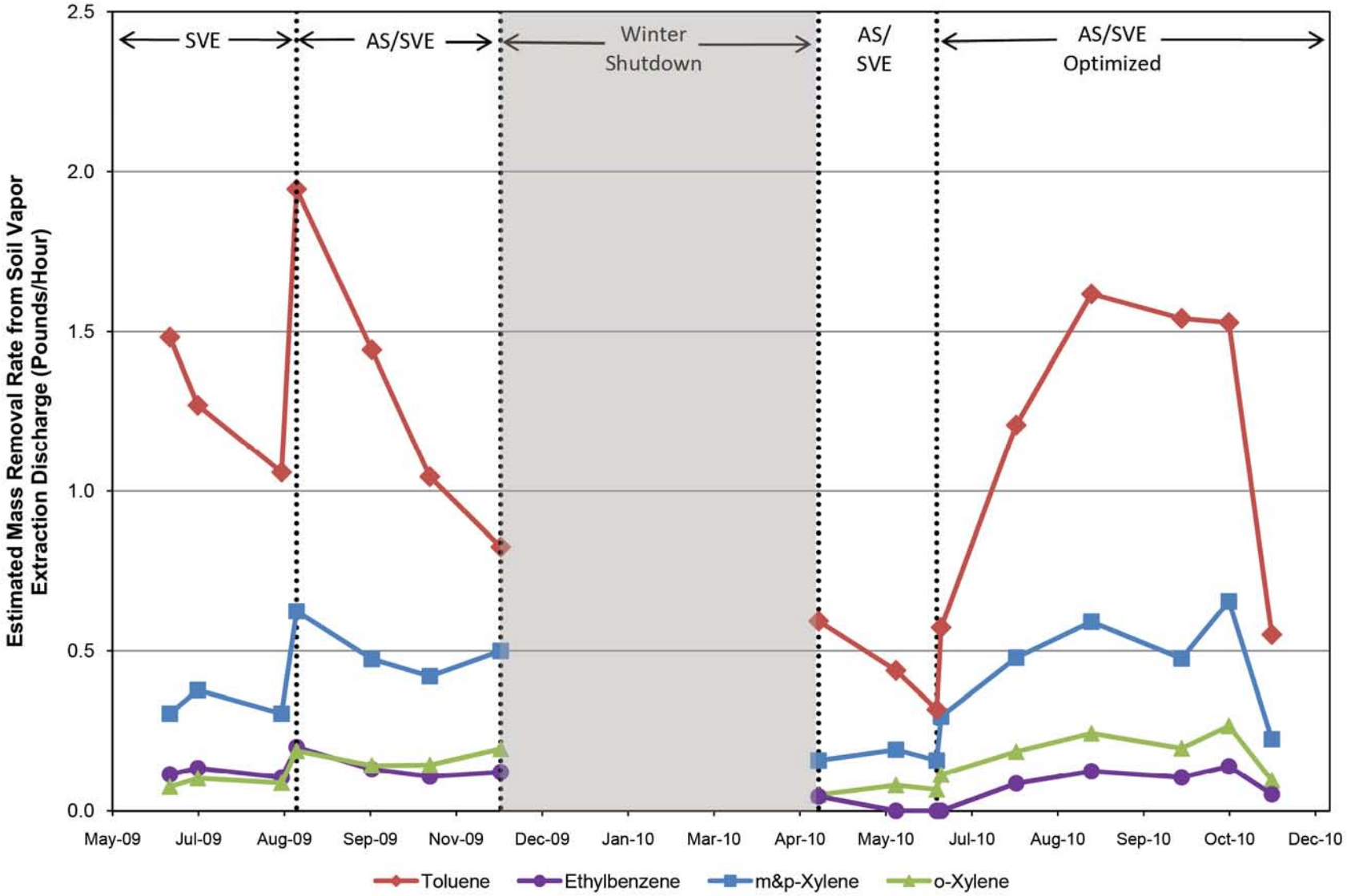
Figure 10
Estimated PCE, TCE, cis-1,2-DCE, and VC Mass Removal Rates versus Time
Dover Municipal Landfill Superfund Site, Dover, NH



Notes:
1. PCE = Tetrachloroethene
2. TCE = Trichloroethene
3. DCE = Dichloroethene
4. VC = Vinyl Chloride
5. AS = Air Sparge
6. SVE = Soil Vapor Extraction

DRAFT

Figure 11
Estimated Toluene, Ethylbenzene, m,p-Xylenes, and o-Xylene Mass Removal Rates versus Time
Dover Municipal Landfill Superfund Site, Dover, NH



Notes:
1. AS = Air Sparge
2. SVE = Soil Vapor Extraction

TABLES

Table 1
AS and SVE Process Monitoring
Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (scfm)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA-Disc. Temp. (deg. F)	Air Sparge VOCTA-Total Runtime* (hrs)	Transfer Pump - Total Runtime^ (hrs)
7/7/2009	A	753	5	113	238	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/10/2009	A	743	6	84	315	NR	NR	NR	NR	NR	NR	NR	NR	4
7/13/2009	A	740	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/14/2009	A	750	NR	130	NR	NR	NR	NR	NR	440	7	92	NR	NR
7/17/2009	A	738	6	139	428	NR	NR	NR	21	NR	NR	NR	40	9
7/21/2009	A	767	6	107	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/22/2009	A	759	6	144	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/23/2009	A	761	5	82	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/31/2009	A	745	6	125	584	NR	NR	NR	NR	454	9	92	53	9
8/4/2009	A	742	5	128	NR	NR	NR	NR	NR	430	11	93	NR	NR
8/10/2009	B	730	4	140	762	100	10	140	125	380	10	110	288	6
8/21/2009	B	725	3	150	993	100	11	145	194	420	9	114	675	6
8/31/2009	A	725	3	134	1,162	100	12	120	236	421	12	101	998	9
9/4/2009	A	733	3	132	1,242	100	13	115	262	404	13	99	1,155	9
9/11/2009	B	730	4	125	1,405	105	13	130	308	380	18	94	1,488	6
9/18/2009	A	722	3	130	1,562	100	12	120	400	397	15	95	1,789	10
9/25/2009	B	730	4	135	1,675	100	13	120	427	380	18	83	2,025	7
10/2/2009	B	746	3	122	1,699	100	13	116	1,035	406	18	90	2,071	7
10/9/2009	B	725	3	130	1,814	100	13	116	477	339	19	93	2,286	10

Table 1
AS and SVE Process Monitoring
Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (scfm)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA-Disc. Temp. (deg. F)	Air Sparge VOCTA-Total Runtime* (hrs)	Transfer Pump - Total Runtime^ (hrs)
10/16/2009	B	745	3	115	1,914	100	5	107	537	457	10	77	2,479	11
10/22/2009	A	740	4	120	2,059	100	14	115	560	450	11	70	2,782	8
10/30/2009	B	735	3	127	2,241	97	9	110	613	473	9	82	3,133	13
11/9/2009	B	738	3	130	2,481	99	10	117	676	481	8	86	3,613	14
11/13/2009	B	736	3	126	2,577	96	6	108	699	378	18	82	3,803	15
11/20/2009	B	754	3	122	2,745	96	12	124	742	448	11	91	4,140	16
11/23/2009	A	750	4	120	2,825	NR	NR	NR	NR	370	20	73	4,314	10
4/21/2010	A	750	3	125	2,862	NR	NR	NR	768	400	9	94	2,195	10
4/30/2010	B	749	3	127	3,004	NR	NR	NR	NR	353	18	102	2,327	86
5/7/2010	B	760	3	120	3,168	NR	NR	NR	NR	467	9	84	2,490	86
5/14/2010	B	747	3	118	3,336	NR	NR	NR	NR	471	9	85	2,659	86
5/27/2010	A	740	3	130	3,524	NR	NR	NR	920	320	5	93	2,855	27
6/4/2010	B	732	3	140	3,718	NR	NR	NR	NR	465	8	110	3,040	87
6/11/2010	B	751	3	134	3,854	93	13	131	992	397	15	105	3,175	87
6/15/2010	A	750	3	170	3,926	NR	9	120	1,002	450	6	100	3,258	28
6/17/2010	A	700	3	150	3,953	NR	12	120	1,011	280	17	90	3,288	29
6/18/2010	B	701	3	140	3,978	NR	NR	NR	1,031	376	10	112	3,296	87
6/25/2010	B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
6/29/2010	B	710	3	137	NR	NR	NR	NR	NR	278	9	117	NR	87

Table 1
AS and SVE Process Monitoring
Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (scfm)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA-Disc. Temp. (deg. F)	Air Sparge VOCTA-Total Runtime* (hrs)	Transfer Pump - Total Runtime^ (hrs)
7/12/2010	B	721	3	144	4,282	97	12	143	1,066	364	10	117	3,600	87
7/16/2010	B	710	3	141	4,368	NR	NR	NR	NR	274	17	108	3,685	88
7/22/2010	A	700	3	145	4,509	86	NR	100	1,072	290	13	106	3,837	29
7/23/2010	B	706	3	143	4,529	NR	NR	NR	1,093	262	17	110	3,846	88
7/30/2010	B	713	3	143	4,681	85	11	137	1,135	280	16	113	3,995	89
8/6/2010	B	718	3	136	4,824	79	10	129	1,173	245	19	103	4,140	89
8/20/2010	B	711	3	147	4,947	NR	NR	NR	1,098	308	14	111	4,272	30
8/26/2010	A	700	1	145	5,091	NR	NR	NR	1,092	290	15	109	4,416	31
9/3/2010	B	703	3	145	5,187	NR	NR	NR	1,159	NR	NR	NR	4,429	48
9/10/2010	B	733	3	137	5,354	NR	NR	NR	1,200	NR	NR	NR	4,429	49
9/17/2010	B	760	3	119	5,488	82	10	108	1,234	NR	NR	NR	4,429	50
9/24/2010	B	743	3	137	5,656	NR	NR	NR	1,276	NR	NR	NR	4,429	50
10/7/2010	A	740	9	145	5,821	1	11	75	1,125	290	15	88	4,498	28
10/15/2010	B	694	3	132	6,012	87	8	115	1,372	251	16	91	4,689	52
10/29/2010	A	725	9	135	6,317	8	8	120	1,255	260	12	86	4,993	54
11/5/2010	B	700	3	137	6,480	14	0	78	1,492	204	13	85	5,156	57
11/12/2010	B	723	3	137	6,649	14	13	75	1,534	213	14	87	5,325	60
11/18/2010	A	700	8	125	6,794	80	8	105	1,375	260	13	78	5,470	540

Table 1
AS and SVE Process Monitoring
Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (scfm)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA-Disc. Temp. (deg. F)	Air Sparge VOCTA-Total Runtime* (hrs)	Transfer Pump - Total Runtime^ (hrs)

Notes:

SVE = soil vapor extraction
in. Hg = inches of mercury
deg. F = degress Fahrenheit
hrs = hours
scfm = standard cubic feet per minute
psi = pounds per square inch
ppmv = parts per million by volume
PTC = Perimeter Treatment Curtain
VOCTA = Volatile Organic Carbon Treatment Area
NR = not recorded due to seasonal shutdown
Disc. Temp. = discharge temperature

A = Recorded during site visit
B = Recorded during telemetry status check

The flow rate readings for the VOCTA recorded via telemetry in August and September 2009 [Event Type B] are biased high due to the unit's calibration. More accurate flow rates were were recored during site visits [Event Type A].
Start date for system was 8/10/09.

* = Two air compressors provide sparge air to the VOCTA. The air sparge runtime for the VOCTA is an average value of the two air compressors.
^ = Total runtime hours for the transfer pump differ between the site visit readings and telemetry readings; site visit readings are assumed to be more accurate.

Table 2
SVE Discharge VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample Event	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppmv)															
Maximum Allowable Stack Concentration		7,829	15,644	109,359	44,031	4,413	364,517	364,554	318	11,017	11,017	156	20,726	15,579	31,232	31,232	234
SVE	6/19/2009	43	9.2	5.9	14.0	1.4	410	0.8	71.0	1.5	0.7	0.6 U	9.4	140	25	6.2	84
SVE	7/6/2009	58	8.5	4.0	7.4	0.5	210	0.5	13.0	3.7	1.4	0.3 U	11.0	120	31	8.4	40
AS/SVE (Line A)	7/14/2009	76	10.0	10.0	9.3	0.6	200	0.5	21.0	4.1	1.7	0.3	14.0	140	38	10.0	46
AS/SVE (Line C)	7/14/2009	84	11.0	16.0	10.0	0.8	230	0.6	21.0	4.2	1.8	0.5 U	15.0	160	42	11.0	52
AS/SVE (Line B)	7/15/2009	72	9.4	14.0	8.4	0.6	180	0.5	18.0	3.7	1.5	0.3 U	13.0	130	35	9.8	39
AS/SVE (Line D)	7/15/2009	76	9.9	12.0	9.2	0.6	190	0.5	21.0	3.9	1.6	0.3 U	13.0	140	36	10.0	43
AS/SVE (Line E)	7/27/2009	40 J	8.1	4.0	5.4	0.3	130	0.4	6.2	3.8	1.4	0.2 U	11.0	110	32	9.0	28
SVE	8/14/2009	68	8.9	13.0	7.6	0.4 U	130	0.4	6.0	2.2	1.1	0.4 U	8.6	100	25	7.2	36
AS/SVE (Line D)	8/21/2009	140	12.0	26.0	13.0	1.1 U	200	1.1 U	6.6	6.3	3.0	1.1 U	17.0	190	53	16.0	65
AS/SVE (Line B)	9/25/2009	140	11.0	14.0	6.5	1.0 U	110	1.0 U	3.9	4.9	2.6	1.0 U	11.0	140	40	12.0	30
AS/SVE (Lines A&D)	10/22/2009	120	8.4	8.2	4.4	1.0 U	70	1.0 U	2.4	4.6	2.5	1.0 U	9.0	100	35	12.0	19
AS/SVE (Lines B&C)	11/24/2009	140	9.9	9.0	3.9	0.2	60	0.2	2.2	7.2	3.9	0.2 U	10.0	78	41	16.0	18
AS/SVE (Line B)	4/21/2010	59	9.5	7.2	6.4	0.4	87	0.6	77.0	1.0	0.7	0.1 U	3.7	56	13	4.1	24
AS/SVE (Lines B&D)	5/27/2010	100	6.9	6.3	2.8	0.1 U	42	0.2	4.2	2.4	1.7	0.1 U	3.8	42	16	6.7	10
AS/SVE (Line B)	6/15/2010	90	5.9	4.9	2.4	0.1 U	36	0.2	6.0	1.9	1.3	0.1 U	3.2	30	13	5.5	8

Table 2
SVE Discharge VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample Event	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppmv)															
Maximum Allowable Stack Concentration		7,829	15,644	109,359	44,031	4,413	364,517	364,554	318	11,017	11,017	156	20,726	15,579	31,232	31,232	234
AS/SVE (Line B)	6/17/2010	150	9.6	6.6	3.4	0.3 U	59	0.3	5.2	3.4	2.2	0.3 U	5.8	58	26	10.0	16
AS/SVE (Line A)	7/22/2010	160	12.0	6.1	3.2	0.3 U	54	0.3 U	5.1	6.3	3.8	0.3 U	8.3	68	34	13.0	14
AS/SVE (Line B)	8/26/2010	210	15.0	8.4	4.0	0.3 U	51	0.3	4.8	7.8	4.7	0.3 U	12.0	91	42	17.0	18
AS/SVE (Line B)	10/7/2010	160	14.0	8.5	4.9	0.2 U	61	0.4	6.2	7.0	4.1	0.2 U	9.6	82	32	13.0	24
AS/SVE (Line B)	10/29/2010	200	15.0	9.6	4.7	0.3 U	52	0.4	4.5	9.6	5.1	0.3 U	13.0	83	45	18.0	28
AS/SVE (Lines A&B)	11/18/2010	110	6.4	4.3	1.9	0.1 U	18	0.1 U	1.4	4.0	2.3	0.1 U	5.0	31	16	6.7	9

Notes:

Sample Event Designation SVE = Sample collected during operation of soil vapor extraction system only
Sample Event Designation AS/SVE(Line X) = Sample collected during operation of both the soil vapor extraction and air sparging systems (applicable air sparging system leg indicated in parantheses)
SVE = soil vapor extraction
VOC = volatile organic compound
ppmv = parts per million by volume
U = compound was not detected at the indicated concentration
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
J = estimated value

Table 3
Aqueous Carbon Treatment VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

(Concentrations are presented in ppb)

Sample Date	Sample	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis1,2-DCE	trans-1,2-DCE	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride	1,4-Dioxane	MEK	2-Hex-anone	MIBK	Ace-tone	n-propyl-Benzene	THF
9/25/2009																						
	Carbon Inf.	1,600	190	120	150	10 U	3,500	20 U	140	78	61	2,400	700	480	1,300	700	1800	150	1100	820	20 U	240
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U
10/22/2009																						
	Carbon Inf.	1,600	180	110	120	5 U	2,800	12	150	74	160	2,400	680	450	1,100	540	1100	50 U	780	370	11	210
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U
11/23/2009																						
	Carbon Inf.	1,700	140	98	86	5 U	1,600	10 U	150	92	84	1,100	480	350	730	490	400	58	470	250 U	10 U	140
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U
6/21/2010																						
	Carbon Inf.	1,900	190	53	68	5 U	1,700	13	29 J	91	10 U	510	240	430	710	400	220	79	680	250 U	10 U	140
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	54
7/22/2010																						
	Carbon Inf.	1,200	210	55	62	5 U	1,500	12	10 U	79	10 U	940	88 J	350	630	330	110	50 U	460	250 U	10 U	81
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U
10/7/2010																						
	Carbon Inf.	1,300	180	47	61	5 U	1,200	10 U	130	58	94	1,400	450	300	520	250 U	680	120	800	250 U	10 U	50 U
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U
10/29/2010																						
	Carbon Inf.	1,100	120	41	38	5 U	730	10 U	95	55	58	760	330	260	410	250 U	800	89	700	250 U	10 U	57
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	65	10 U	10 U	10 U	50 U	2 U	12
11/18/2010																						
	Carbon Inf.	1,000	90	39	46	5 U	590	10 U	23	60	26	350	83	210	510 J	260	80	50 U	200	250 U	10 U	55
	Carbon Eff.	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	75	10 U	10 U	10 U	50 U	2 U	12

Table 3
Aqueous Carbon Treatment VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Sample Date	Sample	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis1,2-DCE	trans-1,2-DCE	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride	1,4-Dioxane	MEK	2-Hex-anone	MIBK	Ace-tone	n-propyl-Benzene	THF
(Concentrations are presented in ppb)																						

Notes:

VOC = volatile organic compound
Inf. = influent
Eff = effluent
ppb = parts per billion
U = compound was not detected at the indicated concentration
J = estimated concentration
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
MEK = methy ethyl ketone
MIBK = methy isobutyl ketone
THF = tetrahydrofuran
G = grab sample was collected after attempting EPA low flow sampling procedures; the well was purged unti dry and allowed to recharge before the sample was collected.
S = sample collected via EPA low flow methodology

Table 4
Vapor Probe Data
Dover Municipal Landfill Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
6/18/2009				
	VP-01	0	2.7	-
	VP-02	0	2.4	-
	VP-03	0	8.6	-
	VP-04	0	7.7	-
	VP-05	0	18.6	1.4
	VP-06	0	3.1	60.5
8/21/2009				
	VP-01	0.04	-	-
	VP-02	0	-	-
	VP-03	0.18	-	-
	VP-04	0.4	-	-
	VP-05	0.1	14.2	0.4
	VP-06	0.02	0.7	0.4
9/25/2009				
	VP-01	0.04	-	-
	VP-02	0	-	-
	VP-03	0.18	-	-
	VP-04	0.38	-	-
10/8/2009				
	VP-05	0.08	2	0
	VP-06	0.1	18.6	0.1
10/23/2009				
	VP-01	0.05	-	-
	VP-02	0	-	-
	VP-03	0.1	-	-
	VP-04	0.35	-	-
	VP-05	0	13.9	0
	VP-06	0.065	7.2	0
11/24/2009				
	VP-01	0	-	-
	VP-02	0.005	-	-
	VP-03	0.005	-	-
	VP-04	0.01	-	-
	VP-05	0	0.2	0
	VP-06	0.05	0.2	0
4/2/2010				
	VP-01	0	1.5	-

Table 4
Vapor Probe Data
Dover Municipal Landfill Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
	VP-02	0	2.5	-
	VP-03	0	2.7	-
	VP-04	0	2.5	-
	VP-05	0	0.7	0.5
	VP-06	0	2.4	57.2
6/15/2010				
	VP-01	0.155	0.3	-
	VP-02	0.205	0	-
	VP-03	0.185	42.7	-
	VP-04	0.35	0.2	-
	VP-05	0.01	0.2	0.1
	VP-06	0.125	0.2	0
7/22/2010				
	VP-01	0.01	-	-
	VP-02	0	-	-
	VP-03	0.015	-	-
	VP-04	0.45	-	-
	VP-05	0	-	0
	VP-06	0.13	-	0
8/26/2010				
	VP-01	0.09	0.6	0.1
	VP-02	0.02	2.5	0.1
	VP-03	0	96	0
	VP-04	1	0.2	0.2
	VP-05	0.005	0	0
	VP-06	0.06	0	0
10/8/2010				
	VP-01	0.09	0.7	0
	VP-02	0.09	0.6	0
	VP-03	0.08	164	0
	VP-04	0.075	1	0
	VP-05	0.035	0.6	0
	VP-06	0.105	2.4	0
10/29/2010				
	VP-01	0.1	3.5	0
	VP-02	0	1.6	0
	VP-03	0	230	0
	VP-04	0.4	0.7	0

Table 4
Vapor Probe Data
Dover Municipal Landfill Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
	VP-05	0	2	0
	VP-06	0	5.3	0.2
3/31/2011				
	VP-01	0	6.3	0.1
	VP-02	0	0.1	0.1
	VP-03	0.05	0.5	0
	VP-04	0	33.8	0.2
	VP-05	0	0.4	0.1
	VP-06	0	29	0.1

Notes:

VOCs = volatile organic compounds
in. H2O = inches of water
ppmv = parts per million by volume
% = percentage

Total VOCs were measured in the field using a photoionization detector.
- = per the work plan, parameter was not recorded.

During the September 25, 2009 Operations and Maintenance event, data could not be recorded at VP-05 and VP-06 due to equipment issues; these data were recorded during the next site visit, which occurred on October 8, 2009.

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
6/23/2009					
	SVE-01	3.4	0.94	53.02	7.0
	SVE-02	2.8	0.88	51.34	10.5
	SVE-03	2.2	0.65	44.15	19.8
	SVE-04	2.2	0.22	25.69	19.3
	SVE-05	2.2	0.04	10.95	9.4
	SVE-06	1.4	0.14	20.51	5.5
	SVE-07	4.6	2.00	77.22	12.2
	SVE-08	3.8	0.20	24.44	54.8
	SVE-09	3	0.10	17.30	909.0
	SVE-10	2.2	0.12	18.97	2,875.0
	SVE-11	1.6	0.26	27.95	178.0
	SVE-12	1.2	0.18	23.26	76.2
	SVE-13	7.8	0.20	24.32	507.0
	SVE-14	5.8	0.70	45.62	631.0
	SVE-15	5.8	0.22	25.57	525.0
	SVE-16	5.4	0.26	27.81	4,221.0
	SVE-16	5.4	0.16	21.82	4,221.0
	SVE-17	4.8	0.30	29.90	3,306.0
	SVE-18	5	0.38	33.64	35.0
	SVE-19	5.8	0.08	15.42	118.0
	SVE-20	4.8	0.24	26.74	100.0
	SVE-21	1.2	0.14	20.52	7.3
	SVE-22	1.6	0.04	10.96	10.3
	SVE-23	1.4	0.08	15.51	36.2
7/6/2009					
	SVE-01	1.4	0.30	30.03	nm
	SVE-02	1.2	0.28	29.01	nm
	SVE-03	1.3	0.30	30.03	nm
	SVE-04	1.4	0.26	27.95	nm
	SVE-05	6.8	0.02	7.70	nm
	SVE-06	2	0.30	30.00	nm
	SVE-07	1	0.26	27.97	nm
	SVE-08	5	0.32	30.87	nm
	SVE-09	8.2	0.34	31.70	nm
	SVE-10	2.5	0.20	24.48	nm

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
7/6/2009					
	SVE-11	1.4	0.30	30.03	nm
	SVE-12	1.6	0.24	26.85	nm
	SVE-13	0.1	0.30	30.07	nm
	SVE-14	3.2	0.27	28.42	nm
	SVE-15	6	0.24	26.70	nm
	SVE-16	6	0.24	26.70	nm
	SVE-17	3.4	0.22	25.65	nm
	SVE-18	3.8	0.26	27.87	nm
	SVE-19	9	0.20	24.29	nm
	SVE-20	5.8	0.36	32.71	nm
	SVE-21	1	0.20	24.53	nm
	SVE-22	5	0.16	21.83	nm
	SVE-23	4.4	0.24	26.76	nm
	SVE-24	5	0.02	7.72	nm
	SVE-25	4.8	0.06	13.37	nm
	SVE-26	4.8	0.02	7.72	nm
	SVE-27	4.7	0.06	13.37	nm
	SVE-28	5	0.04	10.91	nm
	SVE-29	5	0.06	13.37	nm
	SVE-30	4.8	0.06	13.37	nm
	SVE-31	4.6	0.08	15.44	nm
8/21/2009					
	SVE-01	1.65	0.25	27.40	42.6
	SVE-02	1.05	0.25	27.42	203.0
	SVE-03	1.15	0.25	27.42	499.0
	SVE-04	1.25	0.25	27.41	54.6
	SVE-05	4.75	0.15	21.14	231.0
	SVE-06	1.6	0.25	27.40	26.0
	SVE-07	1	0.30	30.04	268.0
	SVE-08	6	0.25	27.25	1,020.0
	SVE-09	5.8	0.30	29.86	1,650.0
	SVE-10	3	0.30	29.97	3,450.0
	SVE-11	1.05	0.25	27.42	1,030.0
	SVE-12	0.9	0.20	24.53	611.0
	SVE-13	10	0.25	27.12	1,040.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
8/21/2009					
	SVE-14	2	0.25	27.39	1,370.0
	SVE-15	6.5	0.30	29.84	4,000.0
	SVE-16	4	0.25	27.32	4,000.0
	SVE-17	3	0.17	22.56	2,480.0
	SVE-18	5	0.30	29.89	547.0
	SVE-19	8.5	0.28	28.75	320.0
	SVE-20	7	0.26	27.76	204.0
	SVE-21	1.1	0.30	30.04	29.0
	SVE-22	4.5	0.22	25.61	59.2
	SVE-23	2	0.30	30.00	69.4
	SVE-24	4.5	0.05	12.21	15.5
	SVE-25	4.5	0.05	12.21	10.3
	SVE-26	4.5	0.05	12.21	163.0
	SVE-27	4.5	0.05	12.21	6.5
	SVE-28	4.5	0.05	12.21	13.3
	SVE-29	2	0.05	12.25	55.4
	SVE-30	4.5	0.05	12.21	8.2
	SVE-31	4.5	0.05	12.21	6.1
10/23/2009					
	SVE-01	2.2	0.30	30.00	20.0
	SVE-02	1.35	0.25	27.41	4.2
	SVE-03	1.75	0.30	30.01	439.0
	SVE-04	1.9	0.38	33.55	70.4
	SVE-05	8	0.20	24.32	61.0
	SVE-06	2.05	0.40	34.64	27.2
	SVE-07	0.85	0.32	31.27	254.0
	SVE-08	7.6	0.32	31.01	351.0
	SVE-09	8.2	0.25	27.18	1,093.0
	SVE-10	3.8	0.40	34.57	3,334.0
	SVE-11	1.65	0.45	36.76	593.0
	SVE-12	1.3	0.40	34.67	636.0
	SVE-13	10	0.30	29.71	966.0
	SVE-14	3	0.25	27.36	1,822.0
	SVE-15	10	0.30	29.71	4,709.0
	SVE-16	8	0.25	27.19	3,031.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
10/23/2009					
	SVE-17	3.6	0.25	27.33	1,917.0
	SVE-18	6	0.38	33.38	373.0
	SVE-19	10	0.25	27.12	951.0
	SVE-20	8	0.20	24.32	72.7
	SVE-21	1.35	0.45	36.78	10.0
	SVE-22	7	0.25	27.22	84.6
	SVE-23	0.2	0.05	12.28	897.0
	SVE-24	6.6	0.05	12.18	7.4
	SVE-25	-	-	-	nm
	SVE-26	-	-	-	nm
	SVE-27	5.8	0.05	12.19	17.3
	SVE-28	6.4	0.05	12.18	0.4
	SVE-29	6.6	0.05	12.18	12.7
	SVE-30	6.4	0.05	12.18	3.0
	SVE-31	6.4	0.05	12.18	29.7
6/15/2010					
	SVE-01	0.3	0.02	7.76	33.8
	SVE-02	0.35	0.05	12.27	48.0
	SVE-03	0.4	0.05	12.27	196.0
	SVE-04	0.35	0.02	7.76	30.2
	SVE-05	5.5	0.05	11.57	33.5
	SVE-06	0.6	0.04	10.27	14.1
	SVE-07	0.35	0.05	12.27	67.9
	SVE-08	3	0.04	10.24	262.0
	SVE-09	13	0.65	43.56	455.0
	SVE-10	9	1.30	61.91	2,149.0
	SVE-11	1.75	0.40	34.66	487.0
	SVE-12	2	0.35	32.41	323.0
	SVE-13	25	0.10	16.82	255.0
	SVE-14	18	2.75	89.03	692.0
	SVE-15	22	0.20	23.89	3,129.0
	SVE-16	18	0.75	46.49	1,806.0
	SVE-17	14	1.25	60.33	990.0
	SVE-18	2	0.05	12.25	176.0
	SVE-19	18	0.05	12.00	1,296.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
6/15/2010					
	SVE-20	6	0.05	12.19	106.0
	SVE-21	1	0.01	5.48	127.0
	SVE-22	7	0.03	8.61	19.6
	SVE-23	7	0.45	36.52	105.0
	SVE-24	9	0.01	5.43	39.8
	SVE-25	9	0.01	5.43	124.0
	SVE-26	9	0.01	5.43	14.8
	SVE-27	7	0.05	12.17	13.6
	SVE-28	9	0.01	5.43	34.8
	SVE-29	9	0.01	5.43	24.2
	SVE-30	9	0.03	9.41	11.1
	SVE-31	18	0.05	11.39	47.7
10/8/2010					
	SVE-01	0.065	<0.01	3.88	33.4
	SVE-02	0.075	<0.01	3.88	76.9
	SVE-03	0.25	0.04	10.98	163.0
	SVE-04	0.25	<0.01	3.88	46.8
	SVE-05	0.075	0.01	5.49	18.2
	SVE-06	0.85	0.05	12.27	49.5
	SVE-07	0.15	<0.01	3.88	164.0
	SVE-08	0.65	0.04	10.97	150.0
	SVE-09	15	0.55	39.97	347.0
	SVE-10	10	1.00	54.23	520.0
	SVE-11	1.1	0.30	30.04	115.0
	SVE-12	0.4	0.20	24.55	126.0
	SVE-13	22.5	0.01	5.34	42.3
	SVE-14	14	3.00	93.46	158.0
	SVE-15	19	<0.01	3.79	1,032.0
	SVE-16	16	0.35	31.84	16.2
	SVE-17	13	2.00	76.41	42.5
	SVE-18	0.5	0.30	30.06	207.0
	SVE-19	19	0.03	9.29	650.0
	SVE-20	6	0.05	12.19	27.6
	SVE-21	0.25	0.05	11.65	22.0
	SVE-22	3	0.05	12.83	134.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
10/8/2010					
	SVE-23	9	0.70	45.43	63.2
	SVE-24	0.04	<0.01		22.4
	SVE-25	0.11	<0.01	3.88	41.3
	SVE-26	0.02	0.04	10.98	50.0
	SVE-27	0.04	<0.01		9.4
	SVE-28	0.12	0.01	5.49	6.6
	SVE-29	0.01	0.01	5.49	53.3
	SVE-30	0.01	<0.01		32.5
	SVE-31	0	<0.01		26.6

Notes:

SVE = soil vapor extraction
VOCs = volatile organic compounds
in. H2O = inches of water
scfm = standard cubic feet per minute
ppmv = parts per million by volume
nm = not measured

1. Vacuum and differential pressure measured in the field using a Dwyer DS-300 for a 2-inch-diameter pipe . Flow was calculated from the field measurements.
2. Total VOCs were measured in the field using a photoionization detector.
3. During the June 2009 field event, total VOCs were measured on June 26, 2009 due to weather conditions/equipment malfunction.
4. During the October 2009 field event, SVE-25 and SVE-26 contained water so no air flow or VOC measurements were recorded.

SVE-01 through SVE-23 Design Flow Rate per the Workplan = 25 scfm.
SVE-24 through SVE-31 Design Flow Rate per the Workplan = 12.5 scfm.
SVE operations were initiated on July 6, 2009; AS and SVE operations were initiated on August 10, 2009.

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-01A				
	7/14/2009	6.0	8.0	11.1
	8/24/2009	9.0	3.0	4.7
	9/2/2009	12.0	4.5	8.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	6.0	7.7	10.6
	6/15/2010	15.0	0.0	0.0
	10/7/2010	14.0	0.0	0.0
AS-01B				
	7/15/2009	2.0	9.0	10.0
	8/24/2009	10.0	0.0	0.0
	9/2/2009	14.0	3.0	5.7
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	0.0	0.0
	6/16/2010	20.0	0.0	0.0
	10/7/2010	14.0	0.0	0.0
AS-01C				
	7/14/2009	7.5	0.0	0.0
	8/24/2009	13.0	0.0	0.0
	9/2/2009	15.0	3.0	5.9
	10/23/2009	11.0	0.0	0.0
	4/19/2010	5.0	11.6	15.2
	6/15/2010	16.0	0.0	0.0
	10/7/2010	10.0	0.0	0.0
AS-01D				
	7/15/2009	NR	NR	NR
	8/24/2009	9.0	7.0	11.1
	9/2/2009	9.0	6.5	10.3
	9/11/2009	10.0	5.5	9.1
	10/23/2009	9.0	0.0	0.0
	4/19/2010	10.0	7.4	12.2
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
AS-01E				
	7/27/2009	3.0	9.8	11.5
	8/24/2009	5.0	10.0	13.1

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-01E				
	9/2/2009	5.0	8.0	10.5
	10/23/2009	6.5	7.4	10.5
	4/19/2010	3.0	8.1	9.6
	6/16/2010	12.0	6.1	10.8
	10/7/2010	10.0	4.5	7.4
AS-02A				
	7/14/2009	6.0	7.5	10.4
	8/24/2009	11.0	2.5	4.3
	9/2/2009	10.0	6.5	10.7
	10/23/2009	8.0	4.6	7.0
	4/19/2010	10.0	3.7	6.1
	6/15/2010	7.0	4.8	6.9
	10/7/2010	9.0	2.0	3.2
AS-02B				
	7/15/2009	8.0	0.0	0.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.5	7.0	12.2
	10/23/2009	3.5	7.0	8.5
	4/19/2010	10.0	2.5	4.1
	6/16/2010	7.0	3.6	5.3
	10/7/2010	0.0	4.0	3.9
AS-02C				
	7/14/2009	8.0	0.0	0.0
	8/24/2009	13.0	0.0	0.0
	9/2/2009	16.0	3.0	6.1
	10/23/2009	7.0	0.0	0.0
	4/19/2010	6.0	8.1	11.2
	6/15/2010	7.0	3.4	4.9
	10/7/2010	6.0	0.0	0.0
AS-02D				
	7/15/2009	3.5	7.5	9.1
	8/24/2009	10.5	0.0	0.0
	9/2/2009	16.0	0.0	0.0
	9/11/2009	15.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-02D				
	4/19/2010	NR	0.0	0.0
	6/15/2010	17.0	0.0	0.0
	10/7/2010	20.0	0.0	0.0
AS-02E				
	7/27/2009	7.0	5.5	8.0
	8/24/2009	10.0	0.0	0.0
	9/2/2009	11.0	4.0	6.9
	10/23/2009	11.0	0.0	0.0
	4/19/2010	10.0	0.0	0.0
	6/16/2010	13.0	0.0	0.0
	10/7/2010	11.0	0.0	0.0
AS-03A				
	7/14/2009	7.0	4.0	5.8
	8/24/2009	10.0	3.0	4.9
	9/2/2009	11.0	6.5	11.1
	10/23/2009	6.0	8.0	11.1
	4/19/2010	10.0	6.1	10.0
	6/15/2010	4.0	3.8	4.8
	10/7/2010	4.0	2.0	2.5
AS-03B				
	7/15/2009	8.0	4.0	6.1
	8/24/2009	10.0	2.5	4.1
	9/2/2009	13.0	4.5	8.3
	10/23/2009	8.0	4.0	6.1
	4/19/2010	7.0	8.1	11.8
	6/16/2010	6.0	2.9	4.1
	7/30/2010	14.0	4.5	8.6
	10/7/2010	14.0	4.0	7.7
AS-03C				
	7/14/2009	5.5	9.0	12.1
	8/24/2009	11.0	7.0	12.0
	9/2/2009	8.0	10.0	15.2
	10/23/2009	10.0	0.0	0.0
	4/19/2010	8.0	6.4	9.6
	6/15/2010	5.0	3.9	5.1

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-03C				
	10/7/2010	4.0	0.0	0.0
AS-03D				
	7/15/2009	7.0	3.0	4.3
	8/24/2009	7.0	8.0	11.6
	9/2/2009	13.0	8.0	14.8
	9/11/2009	9.0	5.0	7.9
	10/23/2009	9.0	0.0	0.0
	4/19/2010	11.0	4.1	7.0
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
AS-03E				
	7/27/2009	2.0	10.0	11.1
	8/24/2009	4.0	8.0	10.0
	9/2/2009	6.0	7.0	9.7
	10/23/2009	6.5	7.0	9.9
	4/19/2010	6.0	9.1	12.6
	6/16/2010	13.0	0.0	0.0
	10/7/2010	15.0	0.0	0.0
AS-04A				
	7/14/2009	7.0	4.5	6.5
	8/24/2009	9.0	7.5	11.9
	9/2/2009	6.5	9.0	12.7
	10/23/2009	6.5	5.7	8.0
	4/19/2010	9.0	9.6	15.2
	6/15/2010	17.0	0.0	0.0
	10/7/2010	15.0	0.0	0.0
AS-04B				
	7/15/2009	8.0	4.0	6.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	11.0	6.5	11.1
	10/23/2009	8.5	0.0	0.0
	4/19/2010	12.0	0.0	0.0
	6/16/2010	20.0	0.0	0.0
	10/7/2010	13.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-04C				
	7/14/2009	5.0	7.5	9.9
	8/24/2009	12.0	6.0	10.7
	9/2/2009	15.0	5.0	9.9
	10/23/2009	10.0	5.8	9.5
	4/19/2010	12.0	5.1	9.1
	6/15/2010	13.0	5.5	10.1
	10/7/2010	15.0	9.5	18.8
AS-04D				
	7/15/2009	7.0	5.0	7.2
	8/24/2009	11.0	0.0	0.0
	9/2/2009	14.0	8.0	15.3
	9/11/2009	13.0	5.0	9.2
	10/23/2009	9.0	1.9	3.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
AS-04E				
	7/27/2009	8.0	5.0	7.6
	8/24/2009	10.0	4.5	7.4
	9/2/2009	10.0	6.0	9.9
	10/23/2009	10.0	3.6	6.0
	4/19/2010	10.0	5.0	8.3
	6/16/2010	10.0	7.1	11.7
	10/7/2010	8.0	6.0	9.1
AS-05A				
	7/14/2009	5.0	8.0	10.5
	8/24/2009	11.0	0.0	0.0
	9/2/2009	13.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	16.0	0.0	0.0
	10/7/2010	11.0	11.0	18.9
AS-05B				
	7/15/2009	2.0	9.5	10.6
	8/24/2009	5.0	10.0	13.1

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-05B				
	9/2/2009	3.0	10.0	11.8
	10/23/2009	3.0	8.0	9.5
	4/19/2010	3.0	8.6	10.1
	6/16/2010	2.0	3.6	4.1
	7/30/2010	6.5	14.5	20.5
	10/7/2010	4.0	15.0	18.7
AS-05C				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	4.5	10.0	12.8
	9/2/2009	5.0	10.0	13.1
	10/23/2009	5.0	7.0	9.2
	4/19/2010	6.0	10.6	14.7
	6/15/2010	7.0	2.1	3.0
	10/7/2010	2.0	1.0	1.1
AS-05D				
	7/15/2009	3.0	8.0	9.5
	8/24/2009	6.0	9.0	12.4
	9/2/2009	4.0	10.0	12.5
	9/11/2009	6.0	9.5	13.1
	10/23/2009	3.5	7.0	8.5
	4/19/2010	5.0	12.5	16.4
	6/15/2010	2.0	3.6	4.1
	10/7/2010	2.0	3.0	3.3
AS-05E				
	7/27/2009	10.0	3.0	4.9
	8/24/2009	10.0	4.5	7.4
	9/2/2009	9.0	6.0	9.5
	10/23/2009	10.5	4.0	6.7
	4/19/2010	9.0	7.1	11.2
	6/16/2010	10.0	8.1	13.4
	10/7/2010	9.0	7.5	11.9
AS-06A				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	9.0	8.0	12.7
	9/2/2009	8.0	8.0	12.1

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-06A				
	10/23/2009	5.0	7.0	9.2
	4/19/2010	7.0	7.8	11.2
	6/15/2010	2.0	3.2	3.5
	10/7/2010	2.0	3.0	3.3
AS-06B				
	7/15/2009	5.0	9.5	12.5
	8/24/2009	8.0	9.0	13.6
	9/2/2009	8.0	8.0	12.1
	10/23/2009	5.0	5.5	7.2
	4/19/2010	6.0	7.3	10.1
	6/16/2010	2.0	2.3	2.5
	7/30/2010	7.0	14.7	21.3
	10/7/2010	3.0	15.0	17.7
AS-06C				
	7/14/2009	4.0	8.0	10.0
	8/24/2009	5.0	5.0	6.6
	9/2/2009	8.0	8.0	12.1
	10/23/2009	8.0	6.3	9.5
	4/19/2010	7.0	7.1	10.2
	6/15/2010	2.0	3.9	4.4
	10/7/2010	13.0	0.0	0.0
AS-06D				
	7/15/2009	5.5	7.0	9.4
	8/24/2009	8.0	8.5	12.9
	9/2/2009	6.5	9.0	12.7
	9/11/2009	6.0	8.5	11.7
	10/23/2009	6.5	5.7	8.0
	4/19/2010	7.0	7.1	10.2
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
AS-06E				
	7/27/2009	8.0	9.0	13.6
	8/24/2009	8.0	6.5	9.8
	9/2/2009	10.0	7.0	11.5
	10/23/2009	10.0	7.0	11.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-06E				
	4/19/2010	10.0	6.5	10.6
	6/16/2010	9.0	10.1	16.0
	10/7/2010	8.0	7.0	10.6
AS-07A				
	7/14/2009	5.5	8.0	10.8
	8/24/2009	9.0	7.0	11.1
	9/2/2009	10.0	7.5	12.4
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	1.4	3.0
	10/7/2010	15.0	0.0	0.0
AS-07B				
	7/15/2009	2.0	8.0	8.9
	8/24/2009	9.5	5.5	8.9
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	0.0	0.0
	6/16/2010	20.0	0.0	0.0
	10/7/2010	14.0	0.0	0.0
AS-07C				
	7/14/2009	7.0	0.0	0.0
	8/24/2009	6.0	0.0	0.0
	9/2/2009	16.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	NR	0.0	0.0
	6/15/2010	16.0	0.0	0.0
	10/7/2010	14.0	18.0	34.5
AS-07D				
	7/15/2009	7.0	5.5	8.0
	8/24/2009	10.0	3.0	4.9
	9/2/2009	10.0	6.0	9.9
	9/11/2009	10.0	5.0	8.2
	10/23/2009	9.0	0.0	0.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	5.0	3.5	4.6

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-07D				
	10/7/2010	7.0	3.0	4.3
AS-07E				
	7/27/2009	7.5	8.5	12.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	10.0	8.5	14.0
	4/19/2010	4.5	5.9	7.6
	6/16/2010	13.0	0.0	0.0
	10/7/2010	11.0	0.0	0.0
AS-08A				
	7/14/2009	7.0	5.5	8.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	14.0	0.0	0.0
	10/23/2009	8.0	2.0	3.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	0.0	0.0
	10/7/2010	0.0	0.0	0.0
AS-08B				
	7/15/2009	8.0	3.0	4.5
	8/24/2009	10.5	3.0	5.0
	9/2/2009	12.0	5.0	8.9
	10/23/2009	9.0	6.0	9.5
	4/19/2010	10.0	3.7	6.1
	6/16/2010	14.0	10.0	19.3
	7/30/2010	14.0	10.0	19.2
	10/7/2010	6.0	0.0	0.0
AS-08C				
	7/14/2009	4.0	7.5	9.4
	8/24/2009	6.0	0.0	0.0
	9/2/2009	12.0	7.0	12.5
	10/23/2009	6.0	4.0	5.5
	4/19/2010	13.0	2.7	5.1
	6/15/2010	10.0	2.8	4.7
	10/7/2010	6.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-08D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	9.5	5.5	8.9
	9/2/2009	8.0	6.5	9.8
	9/11/2009	11.5	7.0	12.2
	10/23/2009	7.0	6.0	8.7
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
AS-08E				
	7/27/2009	6.0	8.5	11.7
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	4.0	11.0	13.7
	4/19/2010	3.5	8.3	10.1
	6/16/2010	3.0	8.6	10.1
	10/7/2010	8.0	9.5	14.4
AS-09A				
	7/14/2009	7.0	6.0	8.7
	8/24/2009	10.0	6.0	9.9
	9/2/2009	11.0	6.0	10.3
	10/23/2009	7.5	3.9	5.8
	4/19/2010	10.0	6.1	10.0
	6/16/2010	6.0	4.0	5.6
	10/7/2010	10.0	0.0	0.0
AS-09B				
	7/15/2009	6.0	3.0	4.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	5.0	7.0	9.2
	4/19/2010	4.0	7.7	9.6
	6/16/2010	2.5	4.0	4.6
	10/7/2010	3.0	0.0	0.0
AS-09C				
	7/14/2009	7.0	7.5	10.9
	8/24/2009	10.0	6.5	10.7

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-09C				
	9/2/2009	10.0	7.0	11.5
	10/23/2009	7.0	4.0	5.8
	4/19/2010	12.0	4.0	7.2
	6/15/2010	7.0	3.5	5.1
	10/7/2010	8.0	0.0	0.0
AS-09D				
	7/15/2009	3.5	10.0	12.1
	8/24/2009	4.0	11.8	14.7
	9/2/2009	NR	NR	NR
	9/11/2009	3.0	9.5	11.2
	10/23/2009	2.0	0.0	0.0
	4/19/2010	4.0	8.1	10.1
	6/15/2010	2.0	3.1	3.4
	10/7/2010	2.0	2.5	2.8
AS-10A				
	7/14/2009	5.0	8.5	11.2
	8/24/2009	7.0	10.0	14.5
	9/2/2009	5.0	9.0	11.8
	10/23/2009	5.0	6.2	8.2
	4/19/2010	6.0	7.1	9.8
	6/16/2010	7.0	14.7	21.3
	10/7/2010	10.0	11.0	18.1
AS-10B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	5.0	10.0	13.1
	9/2/2009	4.5	9.0	11.5
	10/23/2009	3.0	7.0	8.3
	4/19/2010	5.0	9.6	12.7
	6/16/2010	6.0	17.3	23.9
	7/30/2010	6.0	17.3	23.9
	10/7/2010	6.0	14.5	20.0
AS-10C				
	7/14/2009	4.0	9.5	11.9
	8/24/2009	10.0	4.0	6.6
	9/2/2009	13.5	6.5	12.2

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-10C				
	10/23/2009	7.5	3.6	5.4
	4/19/2010	10.0	3.1	5.1
	6/15/2010	15.0	5.6	11.1
	10/7/2010	16.0	5.0	10.2
AS-10D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	8.0	8.0	12.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	7.0	7.0	10.1
	10/23/2009	4.5	6.0	7.7
	4/19/2010	8.0	10.2	15.4
	6/15/2010	2.0	4.1	4.6
	10/7/2010	3.5	2.5	3.0
AS-11A				
	7/14/2009	7.0	4.5	6.5
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.0	7.0	12.0
	10/23/2009	8.8	0.0	0.0
	4/19/2010	10.5	0.0	0.0
	6/16/2010	17.0	3.4	7.2
	10/7/2010	15.0	0.0	0.0
AS-11B				
	7/15/2009	8.0	4.5	6.8
	8/24/2009	9.5	7.0	11.3
	9/2/2009	11.0	7.0	12.0
	10/23/2009	7.5	5.2	7.7
	4/19/2010	4.0	8.1	10.1
	6/16/2010	16.5	9.0	18.6
	10/7/2010	14.0	0.0	0.0
AS-11C				
	7/14/2009	5.0	7.5	9.9
	8/24/2009	10.0	5.5	9.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	8.0	0.0	0.0
	4/19/2010	5.5	7.9	10.6

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-11C				
	6/15/2010	14.0	10.6	20.3
	10/7/2010	11.0	5.5	9.4
AS-11D				
	7/15/2009	8.0	0.0	0.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	15.5	0.0	0.0
	9/11/2009	15.0	0.0	0.0
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	4.1	7.0
	6/15/2010	16.0	8.5	17.4
	10/7/2010	19.0	6.0	13.5
AS-12A				
	7/14/2009	8.0	4.5	6.8
	8/24/2009	11.0	2.5	4.3
	9/2/2009	11.0	5.5	9.4
	10/23/2009	8.0	4.0	6.1
	4/19/2010	NR	0.0	0.0
	6/15/2010	10.0	3.4	5.6
	10/7/2010	9.0	0.0	0.0
AS-12B				
	7/15/2009	8.0	3.0	4.5
	8/24/2009	10.0	4.0	6.6
	9/2/2009	10.0	6.0	9.9
	10/23/2009	10.0	0.0	0.0
	4/19/2010	10.0	2.5	4.1
	6/16/2010	14.0	11.1	21.3
	10/7/2010	10.0	10.0	16.5
AS-12C				
	7/14/2009	5.5	5.5	7.4
	8/24/2009	8.0	9.0	13.6
	9/2/2009	7.0	9.0	13.0
	10/23/2009	5.5	5.0	6.8
	4/19/2010	5.5	7.9	10.6
	6/15/2010	10.0	12.2	20.1
	10/7/2010	8.0	12.0	18.2

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-12D				
	7/15/2009	5.5	9.0	12.1
	8/24/2009	9.0	7.0	11.1
	9/2/2009	5.0	7.5	9.9
	9/11/2009	15.0	0.0	0.0
	10/23/2009	6.5	5.7	8.0
	4/19/2010	10.0	3.7	6.1
	6/15/2010	15.0	9.1	18.0
	10/7/2010	19.0	0.0	0.0
AS-13A				
	7/14/2009	4.5	9.5	12.2
	8/24/2009	3.0	10.0	11.8
	9/2/2009	NR	NR	NR
	10/23/2009	2.0	6.0	6.7
	4/19/2010	5.0	12.2	16.0
	6/15/2010	1.5	2.3	2.5
	10/7/2010	3.0	0.0	0.0
AS-13B				
	7/15/2009	2.0	10.0	11.1
	8/24/2009	7.0	5.0	7.2
	9/2/2009	8.5	7.5	11.6
	10/23/2009	5.0	6.5	8.5
	4/19/2010	4.0	8.1	10.1
	6/16/2010	1.5	3.9	4.2
	7/30/2010	9.0	15.0	23.7
	10/7/2010	12.0	13.0	23.2
AS-13C				
	7/14/2009	8.0	7.5	11.4
	8/24/2009	5.0	4.0	5.3
	9/2/2009	13.0	6.5	12.0
	10/23/2009	10.0	0.0	0.0
	4/19/2010	13.0	3.8	7.1
	6/15/2010	19.0	2.2	4.9
	10/7/2010	18.0	0.0	0.0
AS-13D				
	7/15/2009	4.5	10.0	12.8

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-13D				
	8/24/2009	2.0	10.0	11.1
	9/2/2009	4.0	8.0	10.0
	9/11/2009	5.0	9.0	11.8
	10/23/2009	3.0	7.0	8.3
	4/19/2010	5.0	8.1	10.6
	6/15/2010	2.0	4.1	4.6
	10/7/2010	2.0	0.0	0.0
AS-14A				
	7/14/2009	2.0	10.0	11.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	7.6	9.0
	4/19/2010	6.0	12.1	16.7
	6/16/2010	2.5	4.0	4.6
	10/7/2010	2.0	2.5	2.8
AS-14B				
	7/15/2009	3.5	8.0	9.7
	8/24/2009	6.0	10.3	14.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	4.5	6.9	8.9
	4/19/2010	6.5	11.1	15.7
	6/16/2010	3.0	4.0	4.7
	7/30/2010	13.0	9.5	17.6
	10/7/2010	10.0	8.5	14.0
AS-14C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	5.5	6.5
	9/2/2009	3.0	6.0	7.1
	10/23/2009	6.0	10.0	13.8
	4/19/2010	5.0	11.2	14.7
	6/15/2010	8.0	14.4	21.8
	10/7/2010	14.0	11.0	21.1
AS-14D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-14D				
	9/2/2009	3.5	8.0	9.7
	9/11/2009	5.0	8.0	10.5
	10/23/2009	5.0	5.0	6.6
	4/19/2010	5.0	8.1	10.6
	6/15/2010	15.0	7.7	15.2
	10/7/2010	20.0	0.0	0.0
AS-15A				
	7/14/2009	4.0	9.0	11.2
	8/24/2009	4.0	10.0	12.5
	9/2/2009	3.0	9.5	11.2
	10/23/2009	3.0	8.0	9.5
	4/19/2010	4.0	8.1	10.1
	6/16/2010	6.0	18.3	25.3
	10/7/2010	10.0	12.0	19.8
AS-15B				
	7/15/2009	3.5	9.5	11.5
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	5.0	8.0	10.5
	4/19/2010	5.0	11.2	14.7
	6/16/2010	4.5	16.6	21.3
	10/7/2010	3.0	15.0	17.7
AS-15C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	4.0	9.5	11.9
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	6.0	7.1
	4/19/2010	4.0	8.1	10.1
	6/15/2010	4.0	15.4	19.3
	10/7/2010	4.0	16.0	20.0
AS-15D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	9.0	7.0	11.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	5.0	8.0	10.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-15D				
	10/23/2009	4.0	5.6	7.0
	4/19/2010	7.0	11.1	16.1
	6/15/2010	16.0	4.9	10.1
	10/7/2010	21.0	0.0	0.0
AS-16A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	5.0	9.0	11.8
	10/23/2009	4.0	7.0	8.7
	4/19/2010	3.5	10.0	12.2
	6/16/2010	16.0	5.0	10.2
	10/7/2010	16.0	0.0	0.0
AS-16B				
	7/15/2009	2.5	9.0	10.3
	8/24/2009	10.5	3.5	5.9
	9/2/2009	13.0	4.5	8.3
	10/23/2009	10.0	0.0	0.0
	4/19/2010	11.5	6.1	10.6
	6/16/2010	20.0	4.3	10.0
	10/7/2010	11.0	0.0	0.0
AS-16C				
	7/14/2009	4.0	9.0	11.2
	8/24/2009	5.5	9.5	12.8
	9/2/2009	10.0	7.0	11.5
	10/23/2009	6.5	4.0	5.7
	4/19/2010	9.0	6.1	9.6
	6/15/2010	12.0	10.1	18.0
	10/7/2010	10.0	18.0	29.7
AS-16D				
	7/15/2009	6.0	7.0	9.7
	8/24/2009	10.0	3.0	4.9
	9/2/2009	10.0	6.0	9.9
	9/11/2009	11.0	8.0	13.7
	10/23/2009	7.0	3.5	5.0
	4/19/2010	8.0	7.1	10.7

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-16D				
	6/15/2010	11.0	12.2	20.9
	10/7/2010	14.0	13.0	24.9
AS-17A				
	7/14/2009	6.0	7.5	10.4
	8/24/2009	10.0	5.0	8.2
	9/2/2009	12.0	4.0	7.1
	10/23/2009	8.8	0.0	0.0
	4/19/2010	14.0	4.5	8.6
	6/16/2010	6.0	4.0	5.6
	10/7/2010	5.0	0.0	0.0
AS-17B				
	7/15/2009	4.0	7.5	9.4
	8/24/2009	10.5	0.0	0.0
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.5	0.0	0.0
	4/19/2010	14.0	0.0	0.0
	6/16/2010	20.0	4.3	10.0
	10/7/2010	14.0	0.0	0.0
AS-17C				
	7/14/2009	8.0	5.0	7.6
	8/24/2009	9.5	8.0	12.9
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	5.0	6.9
	4/19/2010	11.0	6.1	10.4
	6/15/2010	11.0	12.2	20.9
	10/7/2010	9.0	12.5	19.8
AS-17D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	7.0	8.0	11.6
	9/2/2009	13.0	4.5	8.3
	9/11/2009	15.0	4.0	7.9
	10/23/2009	3.0	0.0	0.0
	4/19/2010	10.0	7.4	12.2
	6/15/2010	4.0	2.4	3.0
	10/7/2010	5.0	3.0	3.9

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-18A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	4.0	9.5	11.9
	10/23/2009	3.5	7.2	8.7
	4/19/2010	4.0	8.1	10.1
	6/16/2010	6.0	16.5	22.8
	10/7/2010	6.0	17.0	23.5
AS-18B				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	6.0	9.0	12.4
	10/23/2009	8.0	0.0	0.0
	4/19/2010	12.0	6.3	11.1
	6/16/2010	19.5	4.4	10.1
	10/7/2010	12.0	0.0	0.0
AS-18C				
	7/14/2009	3.5	9.0	10.9
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.5	9.0	11.5
	10/23/2009	6.0	4.0	5.5
	4/19/2010	13.0	6.0	11.1
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
AS-18D				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	5.0	10.0	13.1
	9/2/2009	4.0	8.0	10.0
	9/11/2009	5.0	10.0	13.1
	10/23/2009	4.0	6.4	8.0
	4/19/2010	3.0	9.1	10.7
	6/15/2010	6.0	15.4	21.3
	10/7/2010	9.0	15.5	24.5
AS-19A				
	7/14/2009	5.0	9.0	11.8
	8/24/2009	4.0	10.0	12.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-19A				
	9/2/2009	4.0	10.0	12.5
	10/23/2009	3.0	8.0	9.5
	4/19/2010	6.0	11.1	15.4
	6/16/2010	9.5	16.3	26.3
	10/7/2010	10.0	16.0	26.4
AS-19B				
	7/15/2009	2.0	9.5	10.6
	8/24/2009	2.0	10.0	11.1
	9/2/2009	4.5	10.0	12.8
	10/23/2009	6.5	5.7	8.0
	4/19/2010	4.0	7.7	9.6
	6/16/2010	20.0	4.3	10.0
	10/7/2010	14.0	0.0	0.0
AS-19C				
	7/14/2009	5.5	6.5	8.8
	8/24/2009	7.5	10.0	14.8
	9/2/2009	7.0	8.0	11.6
	10/23/2009	8.0	4.0	6.0
	4/19/2010	12.0	5.7	10.1
	6/15/2010	15.0	4.1	8.1
	10/7/2010	18.0	0.0	0.0
AS-19D				
	7/15/2009	5.0	10.0	13.1
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.0	8.5	10.0
	9/11/2009	3.0	9.0	10.6
	10/23/2009	5.0	5.0	6.6
	4/19/2010	11.0	6.5	11.1
	6/15/2010	15.0	6.4	12.7
	10/7/2010	19.0	7.5	16.9
AS-20A				
	7/14/2009	5.5	9.0	12.1
	8/24/2009	8.0	9.0	13.6
	9/2/2009	12.0	3.5	6.2
	10/23/2009	8.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-20A				
	4/19/2010	13.0	4.4	8.1
	6/16/2010	16.0	4.0	8.1
	10/7/2010	3.0	16.5	19.5
AS-20B				
	7/15/2009	3.0	9.0	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	7.0	6.5	9.4
	4/19/2010	13.0	6.0	11.1
	6/16/2010	19.5	9.3	21.3
	10/7/2010	12.0	5.0	8.9
AS-20C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	11.0	5.5	9.4
	9/2/2009	15.0	4.0	7.9
	10/23/2009	7.0	5.0	7.2
	4/19/2010	12.0	6.1	10.8
	6/15/2010	7.0	4.1	5.9
	10/7/2010	7.0	0.0	0.0
AS-20D				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	7.0	10.0	14.5
	9/2/2009	6.5	7.0	9.9
	9/11/2009	12.0	7.5	13.4
	10/23/2009	8.0	0.0	0.0
	4/19/2010	6.0	8.1	11.2
	6/15/2010	16.0	4.9	10.1
	10/7/2010	18.0	3.5	7.6
AS-21A				
	7/14/2009	3.0	10.0	11.8
	8/24/2009	7.0	10.0	14.5
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.0	0.0	0.0
	4/19/2010	12.0	5.1	9.0
	6/16/2010	15.0	7.7	15.2

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-21A				
	10/7/2010	12.0	9.0	16.0
AS-21B				
	7/15/2009	4.0	8.0	10.0
	8/24/2009	9.0	5.5	8.7
	9/2/2009	12.5	3.0	5.4
	10/23/2009	8.0	0.0	0.0
	4/19/2010	14.0	4.2	8.1
	6/16/2010	19.5	4.4	10.0
	10/7/2010	11.0	0.0	0.0
AS-21C				
	7/14/2009	9.0	5.0	7.9
	8/24/2009	10.0	6.5	10.7
	9/2/2009	15.0	4.0	7.9
	10/23/2009	8.5	1.9	3.0
	4/19/2010	14.0	0.0	0.0
	6/15/2010	16.0	2.4	4.9
	10/7/2010	15.0	0.0	0.0
AS-21D				
	7/15/2009	6.0	6.5	9.0
	8/24/2009	10.5	0.0	0.0
	9/2/2009	12.0	5.5	9.8
	9/11/2009	12.0	7.0	12.5
	10/23/2009	7.0	6.0	8.7
	4/19/2010	11.0	6.1	10.4
	6/15/2010	16.0	5.4	11.1
	10/7/2010	20.0	4.5	10.4
AS-22A				
	7/14/2009	2.5	10.0	11.5
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	7.0	8.3
	4/19/2010	4.0	12.3	15.4
	6/16/2010	5.0	15.4	20.3
	10/7/2010	6.0	15.0	20.7

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-22B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	10.0	4.0	6.6
	9/2/2009	12.5	3.5	6.4
	10/23/2009	10.0	0.0	0.0
	4/19/2010	14.0	0.0	0.0
	6/16/2010	19.5	4.4	10.0
	10/7/2010	14.0	0.0	0.0
AS-22C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	6.0	7.1
	4/19/2010	6.0	10.1	14.0
	6/15/2010	9.0	13.5	21.3
	10/7/2010	12.0	10.0	17.8
AS-22D				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.0	9.0	10.6
	9/11/2009	2.5	10.0	11.5
	10/23/2009	3.0	6.8	8.0
	4/19/2010	3.0	13.2	15.6
	6/15/2010	4.0	15.4	19.3
	10/7/2010	6.0	17.5	24.2
AS-23A				
	7/14/2009	4.0	8.0	10.0
	8/24/2009	7.0	10.0	14.5
	9/2/2009	6.0	9.0	12.4
	10/23/2009	3.0	5.1	6.0
	4/19/2010	6.5	8.1	11.4
	6/15/2010	12.0	12.2	21.7
	10/7/2010	2.0	16.5	18.4
AS-23B				
	7/15/2009	5.0	10.0	13.1
	8/24/2009	4.0	10.0	12.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-23B				
	9/2/2009	4.5	9.0	11.5
	10/23/2009	5.0	6.5	8.5
	4/19/2010	5.0	13.2	17.3
	6/16/2010	7.0	17.3	25.1
	10/7/2010	7.0	11.5	16.7
AS-23C				
	7/14/2009	3.5	10.0	12.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.5	9.0	11.5
	10/23/2009	6.0	6.0	8.3
	4/19/2010	4.0	7.7	9.6
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
AS-23D				
	7/15/2009	4.5	9.0	11.5
	8/24/2009	8.0	10.0	15.2
	9/2/2009	7.0	5.5	8.0
	9/11/2009	14.0	3.0	5.7
	10/23/2009	8.5	0.0	0.0
	4/19/2010	12.0	3.7	6.6
	6/15/2010	16.0	4.9	10.0
	10/7/2010	21.0	0.0	0.0
AS-24A				
	7/14/2009	6.0	4.5	6.2
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.5	4.5	7.9
	10/23/2009	5.0	0.0	0.0
	4/19/2010	15.0	4.6	9.1
	6/15/2010	17.0	3.4	7.2
	10/7/2010	10.0	0.0	0.0
AS-24B				
	7/15/2009	3.0	9.0	10.6
	8/24/2009	8.0	10.0	15.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	5.4	7.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-24B				
	4/19/2010	9.0	6.1	9.6
	6/16/2010	15.0	12.8	25.3
	10/7/2010	7.0	11.5	16.7
AS-24C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.0	8.0	12.1
	10/23/2009	9.0	6.0	9.5
	4/19/2010	11.0	9.5	16.2
	6/15/2010	12.0	11.1	19.9
	10/7/2010	12.0	11.5	20.5
AS-24D				
	7/15/2009	6.5	6.0	8.5
	8/24/2009	9.5	6.0	9.7
	9/2/2009	8.0	7.0	10.6
	9/11/2009	11.5	7.5	13.1
	10/23/2009	5.0	6.5	8.5
	4/19/2010	10.0	6.1	10.1
	6/15/2010	11.0	12.2	20.9
	10/7/2010	21.0	0.0	0.0
AS-25A				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	6.5	10.0	14.1
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.5	0.0	0.0
	4/19/2010	15.0	4.6	9.1
	6/15/2010	17.0	3.4	7.2
	10/7/2010	3.0	16.5	19.5
	10/7/2010	14.0	0.0	0.0
AS-25B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	10.0	5.0	8.2
	9/2/2009	13.0	4.0	7.4
	10/23/2009	7.0	6.0	8.7
	4/19/2010	15.0	4.9	9.6

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-25B				
	6/16/2010	16.0	10.0	20.5
	10/7/2010	14.0	0.0	0.0
AS-25C				
	7/14/2009	9.0	3.0	4.7
	8/24/2009	13.0	0.0	0.0
	9/2/2009	15.0	3.0	5.9
	10/23/2009	8.0	2.0	3.0
	4/19/2010	14.5	0.0	0.0
	6/15/2010	15.0	0.0	0.0
	10/7/2010	17.0	0.0	0.0
AS-25D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	6.0	10.0	13.8
	9/11/2009	3.0	10.0	11.8
	10/23/2009	5.0	0.0	0.0
	4/19/2010	12.0	3.4	6.1
	6/15/2010	16.0	4.9	10.0
	10/7/2010	19.0	0.0	0.0
AS-26A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	6.0	10.0	13.8
	9/2/2009	6.0	9.0	12.4
	10/23/2009	3.5	7.4	9.0
	4/19/2010	6.0	11.1	15.4
	6/15/2010	11.5	13.2	23.1
	10/7/2010	15.0	0.0	0.0
AS-26B				
	7/15/2009	5.0	8.5	11.2
	8/24/2009	11.0	4.0	6.9
	9/2/2009	11.0	7.5	12.9
	10/23/2009	10.0	0.0	0.0
	4/19/2010	14.5	4.9	9.6
	6/16/2010	19.0	4.5	10.1
	10/7/2010	15.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-26C				
	7/14/2009	3.5	10.0	12.1
	8/24/2009	6.0	10.0	13.8
	9/2/2009	14.0	6.0	11.5
	10/23/2009	9.0	0.0	0.0
	4/19/2010	10.0	10.1	16.7
	6/15/2010	12.0	11.1	19.9
	10/7/2010	8.0	15.0	22.7
AS-26D				
	7/15/2009	5.0	9.0	11.8
	8/24/2009	7.0	9.5	13.8
	9/2/2009	5.5	7.5	10.1
	9/11/2009	5.0	10.0	13.1
	10/23/2009	4.0	7.0	8.7
	4/19/2010	7.0	10.1	14.7
	6/15/2010	9.0	8.7	13.8
	10/7/2010	19.0	8.0	18.0
AS-27A				
	7/14/2009	6.0	8.5	11.7
	8/24/2009	10.0	5.0	8.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	7.0	5.0	7.2
	4/19/2010	6.0	11.1	15.4
	6/15/2010	1.0	4.0	4.2
	10/7/2010	0.0	0.0	0.0
AS-27B				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	2.5	10.0	11.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	3.5	6.0	7.3
	4/19/2010	3.0	8.1	9.6
	6/16/2010	19.5	4.4	10.0
	10/7/2010	12.0	5.5	9.8
AS-27C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	6.5	7.0	9.9

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-27C				
	9/2/2009	15.0	3.5	6.9
	10/23/2009	8.0	0.0	0.0
	4/19/2010	13.0	5.8	10.6
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
AS-27D				
	7/15/2009	5.5	8.0	10.8
	8/24/2009	8.5	3.0	4.6
	9/2/2009	10.5	6.0	10.1
	9/11/2009	12.0	7.0	12.5
	10/23/2009	6.0	5.8	8.0
	4/19/2010	11.0	5.1	8.7
	6/15/2010	12.0	11.1	19.9
	10/7/2010	15.0	12.0	23.8
AS-28A				
	7/14/2009	3.0	10.0	11.8
	8/24/2009	6.0	9.0	12.4
	9/2/2009	10.0	6.0	9.9
	10/23/2009	8.0	0.0	0.0
	4/19/2010	15.0	0.0	0.0
	6/15/2010	16.0	3.5	7.2
	10/7/2010	15.0	0.0	0.0
AS-28B				
	7/15/2009	1.0	10.0	10.5
	8/24/2009	2.0	10.0	11.1
	9/2/2009	3.0	10.0	11.8
	10/23/2009	2.0	10.0	11.1
	4/19/2010	3.0	14.6	17.2
	6/16/2010	1.0	4.0	4.2
	7/30/2010	4.0	16.5	20.6
	10/7/2010	1.0	6.5	6.8
AS-28C				
	7/14/2009	7.5	6.0	8.9
	8/24/2009	10.0	7.0	11.5
	9/2/2009	15.0	3.0	5.9

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-28C				
	10/23/2009	10.0	0.0	0.0
	4/19/2010	15.0	0.0	0.0
	6/15/2010	15.0	0.0	0.0
	10/7/2010	16.0	0.0	0.0
AS-28D				
	7/15/2009	4.0	8.0	10.0
	8/24/2009	9.0	7.0	11.1
	9/2/2009	8.0	7.0	10.6
	9/11/2009	10.0	7.0	11.5
	10/23/2009	3.0	6.0	7.1
	4/19/2010	7.0	7.1	10.2
	6/15/2010	4.5	2.3	2.9
	10/7/2010	4.0	0.0	0.0
AS-29A				
	7/14/2009	7.0	4.0	5.8
	8/24/2009	10.0	5.0	8.2
	9/2/2009	8.5	6.0	9.3
	10/23/2009	7.0	5.5	8.0
	4/19/2010	11.0	6.1	10.4
	6/15/2010	6.0	3.7	5.1
	10/7/2010	8.0	0.0	0.0
AS-29B				
	7/15/2009	2.5	8.0	9.2
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.5	7.0	10.8
	10/23/2009	8.0	0.0	0.0
	4/19/2010	7.0	7.1	10.2
	6/16/2010	18.0	6.1	13.3
	10/7/2010	14.0	0.0	0.0
AS-29C				
	7/14/2009	7.0	6.0	8.7
	8/24/2009	8.5	8.5	13.2
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.0	0.0	0.0
	4/19/2010	13.0	6.3	11.7

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-29C				
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
AS-29D				
	7/15/2009	5.0	8.0	10.5
	8/24/2009	7.0	9.8	14.1
	9/2/2009	7.0	7.0	10.1
	9/11/2009	12.5	5.5	10.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	8.0	7.1	10.7
	6/15/2010	12.0	4.0	7.2
	10/7/2010	21.0	0.0	0.0
AS-30A				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	9.0	7.0	11.1
	9/2/2009	6.0	9.0	12.4
	10/23/2009	6.0	6.0	8.3
	4/19/2010	10.0	6.1	10.0
	6/15/2010	17.0	3.4	7.2
	10/7/2010	18.0	0.0	0.0
AS-30B				
	7/15/2009	7.5	6.0	8.9
	8/24/2009	NR	NR	NR
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.0	0.0	0.0
	4/19/2010	14.0	4.2	8.1
	6/16/2010	20.0	1.3	3.0
	10/7/2010	13.0	0.0	0.0
AS-30C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	8.0	8.0	12.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	6.0	8.3
	4/19/2010	9.0	9.1	14.4
	6/15/2010	3.0	3.4	4.1
	10/7/2010	2.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-30D				
	7/15/2009	5.0	8.0	10.5
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.0	7.0	10.6
	9/11/2009	14.0	3.3	6.2
	10/23/2009	6.0	0.0	0.0
	4/19/2010	9.5	7.4	12.0
	6/15/2010	15.0	6.1	12.2
	10/7/2010	20.0	3.0	6.9
AS-31A				
	7/14/2009	2.0	10.0	11.1
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	7.0	10.6
	10/23/2009	8.0	0.0	0.0
	4/19/2010	11.0	9.1	15.6
	6/15/2010	17.0	3.4	7.2
	10/7/2010	15.0	0.0	0.0
AS-31B				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	6.0	10.0	13.8
	9/2/2009	5.0	8.0	10.5
	10/23/2009	7.0	4.0	5.8
	4/19/2010	10.0	6.1	10.0
	6/16/2010	20.0	4.3	10.0
	10/7/2010	10.0	0.0	0.0
AS-31C				
	7/14/2009	5.5	9.5	12.8
	8/24/2009	6.0	8.0	11.1
	9/2/2009	14.0	4.0	7.7
	10/23/2009	10.0	0.0	0.0
	4/19/2010	14.0	0.0	0.0
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
AS-31D				
	7/15/2009	3.5	9.5	11.5
	8/24/2009	5.0	10.0	13.1

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-31D				
	9/2/2009	5.0	8.0	10.5
	9/11/2009	13.0	6.0	11.1
	10/23/2009	8.0	0.0	0.0
	4/19/2010	7.0	11.1	16.1
	6/15/2010	5.0	3.3	4.4
	10/7/2010	11.0	3.5	6.0

Notes:

psi = pounds per square inch
acfm = actual cubic feet per minute
scfm = standard cubic feet per minute
Equation for converstion of acfm to scfm = (flow [in acfm])*[(14.7+pressure [in psi]/14.7]*[520/(460+70 deg. F)
NR = data not recorded
System start date was 8/10/2009 and all data was collected prior to 8/10/09 was a component of either startup/shake down or compliance sampling.
Initial Design Flow Rate = 10 scfm
Suffix A,B,C,D = each leg of system in the volatile organic compound treatment area
Suffix E = E leg of system in the perimeter treatment curtain

Table 7
Ambient Air Exposure Monitoring VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Sample ID	Sample Date	Date Notes	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1.2- DCE	trans-1.2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride	THF
(Concentrations are presented in ppbv)																			
Annual AAL Criteria			59.71	119.09	833.45	335.49	50.44	1984.20	1984.20	2.43	83.81	83.81	1.19	230.31	106.15	23.03	23.03	119.17	167.52
TR-Base																			
	9/3/2008	A	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
	4/1/2009	A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	7/13/2009	B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	10/22/2009	C	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1
	11/12/2009	D	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	4/2/2010	A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	4/30/2010	B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U
	7/22/2010	C	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	24

Notes:

VOC = volatile organic compounds
ppbv = parts per billion by volume
AAL = New Hampshire Ambient Air Limit
U = compound was not detected at the indicated concentration
PCE = Tetrachloroethene
TCE = Trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
THF = tetrahydrofuran
Sample collected along Tolend Road, north of the soil vapor extraction discharge stack.
[A] = Sample was collected prior to AS and SVE system start up.
[B] = Sample was collected one week after SVE start up.
[C] = Sample was collected 3 months after official AS and SVE operations began (August 8, 2009); In October 2009, the sample was collected during heavy traffic conditions.
[D] = Sample was collected to verify concentration data detected in the October 2009 sample.

Table 8
Ground Water VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Monitoring Well	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are presented in ppb)															
AS-01A																	
	9/03/08 G	75	13	150	290	5 U	1,900	13	1,000	150	57	10 U	110	1,900	360	110	25 U
AS-02E																	
	9/03/08 G	100 U	100 U	100 U	100 U	50 U	390	100 U	210	100 U	100 U	100 U	100 U	100 U	100 U	100 U	250 U
	4/01/09 S	100 U	100 U	100 U	100 U	50 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	250 U
	1/04/10 S	4	3	2 U	2 U	1 U	18	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U
	3/31/10 G	22	26	2 U	2 U	1 U	64	2 U	2 U	5	2	2 U	2 U	6	4	3	5 U
	12/21/10 G	2 U	2 U	2 U	2	1 U	24	2 U	2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U
AS-03C																	
	3/31/10 S	270	92	2	55	1 U	170	2 U	57	2 U	2 U	2 U	2 U	3	2 U	5	5 U
	12/20/10 S	8	2 U	2 U	83	1 U	24	2 U	24	2 U	2 U	2 U	2 U	2 U	2 U	3	6
AS-04C																	
	9/02/08 S	140,000	16,000	50,000	5,000	720	35,000	400 U	2,900	400 U	400 U	400 U	1,700	16,000	4,300	1,200	38,000
	4/01/09 S	120,000	15,000	32,000	2,000	500 U	83,000	1,000 U	2,600	1,000 U	1,000 U	1,000 U	1,800	14,000	5,200	1,300	14,000
	1/04/10 S	300	2,600	1,400	290	50 U	14,000	100 U	100 U	100 U	100 U	100 U	100 U	2,000	100 U	100 U	650
	3/31/10 S	150	860	3,100	810	100	55,000	110	480	100 U	100 U	100 U	290	3,500	1,100	390	250 U
	12/20/10 S	6,300	3,300	1,600	360	100 U	23,000	200 U	200 U	200 U	200 U	200 U	200 U	900	200 U	200 U	500 U
AS-05D																	
	12/20/10 S	40 U	42	270	1,700	300	31,000	85	1,100	40 U	40 U	40 U	270	7,700	890	450	100 U
AS-06C																	
	3/31/09 S	40 U	40 U	88	470	20 U	8,200	66	5,600	550	210	40 U	400	9,700	1,300	400	100 U
	1/04/10 S	17 J	7 J	2 U	12	1 U	79	2 U	43	4	2 U	2 U	2 U	10	2	2	5 U
AS-06C (Duplicate)																	
	1/04/10 S	10 J	5 J	2 U	11	1 U	79	2 U	38	2 U	2 U	2 U	2 U	12	2 U	2 U	5 U
AS-07E																	
	9/03/08 G	20 U	20 U	41	580	10 U	15,000	23	7,100	180	53	25	400	4,000	1,100	370	50 U
	3/31/09 S	21	10 U	10 U	290	5 U	36	10 U	930	200	60	35	440	3,000	1,300	430	25 U
	12/31/09 S	20 U	20 U	20 U	100	10 U	110	20 U	1,800	150	43	20 U	290	2,800	940	360	50 U
	3/31/10 S	20 U	20 U	20 U	95	10 U	20 U	20 U	20 U	100	34	20 U	160	1,200	510	190	50 U
	12/21/10 G	10 U	10 U	10 U	110	5 U	1,600	20	4,200	10 U	10 U	10 U	29	160	20	30	25 U
AS-13B																	
	9/03/08 G	200 U	200 U	220	1,600	100 U	4,200	200 U	890	250	200 U	200 U	300	9,100	810	280	500 U
	4/01/09 G	40 U	40 U	40 U	97	20 U	40 U	40 U	40 U	220	61	40 U	300	7,800	770	280	100 U
	1/04/10 S	2 U	2 U	2 U	46	1 U	19	2 U	64	4	2 U	3	5	11	3	5	5 U
	3/31/10 S	2 U	2 U	2 U	42	1 U	14	5	75	28	9	3	50	1,200	97	54	9
	12/20/10 S	10	6	2 U	52	1	300	2	120	2 U	2 U	2 U	3	32	4	13	5 U
AS-14A																	
	9/03/08 S	2,300	400 U	2,000	6,500	200 U	25,000	400 U	850	460	400 U	400 U	1,400	81,000	4,000	1,100	25,000
	3/31/09 S	400 U	400 U	3,100	9,200	200 U	39,000	400 U	850	430	400 U	400 U	1,600	100,000	4,600	1,300	51,000
	1/04/10 S	2 U	2 U	3	45	1 U	320	2 U	27	5	2 U	2 U	3	110	8	4	5 U
	3/31/10 S	20 U	20 U	20	250	10 U	2,600	20 U	710	55	24	20 U	33	2,300	110	74	50 U
	12/21/10 S	2 U	2 U	2 U	30	1 U	180	2 U	59	8	15	2 U	5	320	32	29	5 U
AS-14A (Duplicate)																	
	3/31/09 S	400 U	400 U	3,000	9,200	200 U	39,000	400 U	820	420	400 U	400 U	1,500	100,000	4,500	1,200	51,000
AS-15A																	
	9/03/08 G	1,700	660	1,900	4,200	100 U	35,000	200 U	1,200	200 U	200 U	200 U	300	17,000	880	290	38,000

Table 8
Ground Water VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Monitoring Well	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are presented in ppb)															
AS-15A																	
	4/01/09 G	200 U	200 U	2,600 B	7,200	100 U	40,000	200 U	1,300	200 U	200 U	200 U	310	28,000	910	300	61,000 B
	12/31/09 S	40 U	40 U	40 U	170	20 U	6,500	40 U	3,800	40 U	40 U	40 U	40 U	850	150	69	100 U
	3/31/10 S	40 U	40 U	40 U	630	20 U	91	40 U	24,000	120	48	40 U	270	4,700	1,200	420	100 U
	12/21/10 S	13	3	2 U	2 U	1 U	240	2 U	8	2 U	2 U	2 U	2 U	2	2 U	2 U	5 U
AS-15B																	
	3/31/10 S	66	220	310	1,500	72	52,000	84	4,200	77	40 U	40 U	200	9,600	810	250	490
	12/21/10 S	100 U	100 U	100 U	110	50 U	13,000	100 U	120	100 U	100 U	100 U	100 U	100 U	100 U	100 U	250 U
AS-15D																	
	9/03/08 G	23,000	2,300	2,100	4,200	110	180,000	200 U	2,000	200 U	200 U	200 U	800	2,000	2,300	720	27,000
	4/01/09 G	130,000	6,900	9,600	7,000	500 U	220,000	1,000 U	3,200	1,000 U	1,000 U	1,000 U	2,700	47,000	8,100	2,300	41,000
	12/31/09 S	1,000 U	1,400	1,000 U	1,900	500 U	120,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	11,000	1,000 U	1,000 U	3,800
	3/31/10 S	1,300	1,000 U	1,000 U	1,600	500 U	180,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	28,000	1,400	1,000 U	2,500 U
	12/21/10 G	400 U	400 U	400 U	1,300	200 U	5,000	400 U	54,000	400 U	400 U	400 U	400 U	4,100	400 U	400 U	1,000 U
AS-16A																	
	3/31/09 S	54,000	5,500	2,000 U	7,600	1,000 U	230,000	2,000 U	3,100	2,000 U	2,000 U	2,000 U	2,800	64,000	9,200	2,700	34,000
	12/31/09 S	1,000 U	1,000 U	1,000 U	2,700	500 U	110,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	9,500	1,000 U	1,000 U	4,300
AS-16C																	
	9/03/08 G	28,000	3,500	4,600	3,900	120	160,000	200 U	2,500	200 U	200 U	200 U	880	21,000	2,600	810	14,000
	4/01/09 G	110,000	6,400	8,900	6,300	500 U	210,000	1,000 U	3,500	1,000 U	1,000 U	1,000 U	2,800	48,000	9,000	2,500	29,000
	12/31/09 S	560	3,500	650	380	50 U	18,000	100 U	340	100 U	100 U	100 U	100 U	1,400	350	200	250 U
	3/31/10 S	600	1,200	1,000	1,500	83	92,000	100 U	2,100	290	110	100 U	580	13,000	2,600	860	280
	12/20/10 S	25,000	1,800	870	200 U	100 U	15,000	200 U	430	200 U	200 U	200 U	230	11,000	1,400	710	500 U
AS-22D																	
	12/21/10 S	100 U	100 U	100 U	630	50 U	8,800	100 U	5,000	100 U	100 U	100 U	390	11,000	520	310	250 U
AS-23C																	
	3/31/10 G	59,000	12,000	1,400	540	200 U	130,000	400 U	3,300	950	400 U	400 U	1,800	12,000	6,400	1,800	1,000 U
	12/21/10 G	210	300	200 U	280	100 U	21,000	200 U	470	200 U	200 U	200 U	200 U	450	200 U	200 U	500 U
AS-24A																	
	9/03/08 S	570	370	7,400	6,500	160	55,000	200 U	980	390	200 U	200 U	860	44,000	2,200	760	52,000
AS-24C																	
	9/02/08 G	2,500	250	450	2,300	150	160,000	240	7,400	890	260	100 U	2,700	20,000	7,800	2,500	1,800
AS-25A																	
	4/01/09 G	200 U	200 U	200 U	350	100 U	8,700	200 U	830	200 U	200 U	200 U	200 U	2,100	210	200 U	500 U
	12/31/09 S	100 U	100 U	100 U	920	50 U	15,000	100 U	280	100 U	100 U	100 U	100 U	600	100 U	100 U	1,900
AS-25B																	
	1/04/10 S	110	100 U	100 U	100 U	50 U	1,500	100 U	100 U	100 U	100 U	100 U	100 U	140	100 U	100 U	250 U
	4/01/10 S	83	270	22	440	10 U	6,800	20 U	450	23	20 U	20 U	120	1,400	280	140	50 U
	12/21/10 S	36	17	10 U	31	5 U	600	10 U	10 U	29	10 U	10 U	58	69	18	20	25 U
AS-27B																	
	9/03/08 S	820	120	100 U	1,300	55	88,000	100 U	6,900	370	120	100 U	950	11,000	2,700	860	250 U
	3/31/09 S	400 U	400 U	400 U	1,500	200 U	83,000	400 U	4,500	400 U	400 U	400 U	870	14,000	2,600	850	1,000 U
	12/31/09 S	390	290	40 U	320	20 U	5,000	40 U	2,800	73	40 U	40 U	450	3,600	1,700	1,200	100 U
	4/01/10 S	1,100	460	40 U	160	20 U	3,400	40 U	700	520	160	40 U	1,500	5,700	5,600	3,000	100 U
	12/21/10 S	40 U	47	40 U	180	20 U	6,000	40 U	4,200	40 U	40 U	40 U	42	490	140	150	100 U
AS-27B (Duplicate)																	
	4/01/10 S	1,200	360	20 U	150	10 U	3,100	20 U	660	530	160	20 U	1,400	5,400	5,200	2,800	50 U

Table 8
Ground Water VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Monitoring Well	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are presented in ppb)															
AS-27D																	
	12/21/10 S	190	150	10 U	170	7	5,700	15	3,700	10 U	10 U	10 U	10 U	110	12	22	25 U
AS-28B																	
	9/03/08 S	12,000	470	1,700	5,400	120	71,000	200 U	2,000	770	220	200 U	1,700	35,000	4,600	1,400	12,000
AS-28B (Duplicate)																	
	9/03/08 S	9,700	390	1,500	4,200	100 U	59,000	200 U	1,500	570	200 U	200 U	1,400	28,000	3,800	1,100	11,000
GW-01																	
	9/02/08 S	390	94	140	500	5 U	1,000	12	240	280	100	10 U	280	3,100	1,000	380	45
	4/01/09 S	36	20 U	75 B	600	10 U	2,600	21	1,400	270	96	20 U	410	5,500	1,500	540	180 B
	1/04/10 S	40 U	100	810	1,800	22	14,000	40	5,000	66	40 U	40 U	140	2,300	560	230	100 U
	3/31/10 S	350	5,000	550	560	50 U	12,000	100 U	2,100	100 U	100 U	100 U	140	2,400	580	230	250 U
	12/20/10 S	530	370	370	2,200	50 U	6,300	100 U	41,000	100 U	100 U	100 U	140	2,700	500	220	330
GW-01 (Duplicate)																	
	12/20/10	540	360	390	2,300	14	4,900	44	37,000	31	20 U	20 U	160	2,700	540	260	320
GW-02																	
	9/02/08 S	300	200 U	2,200	5,500	100 U	35,000	200 U	2,200	820	220	200 U	1,300	36,000	3,000	940	5,600
	3/31/09 S	100 U	100 U	200	3,600	50 U	19,000	100 U	2,200	550	130	100 U	950	23,000	2,500	740	2,100
	1/04/10 S	100 U	100 U	100 U	130	50 U	100 U	100 U	150	100 U	100 U	100 U	100 U	1,600	180	100	250 U
	3/31/10 S	10 U	10 U	10 U	42	5 U	110	10 U	120	100	32	14	120	2,900	270	140	51
GW-03																	
	9/02/08 S	22,000	3,400	14,000	3,400	170	120,000	200 U	2,300	510	200 U	200 U	1,700	29,000	5,000	1,600	14,000
	3/31/09 S	33,000	8,000	20,000	6,900	500 U	150,000	1,000 U	2,900	1,000 U	1,000 U	1,000 U	2,300	44,000	7,700	2,300	9,600
	1/04/10 S	17,000	15,000	1,600	220	100 U	34,000	200 U	420	240	200 U	200 U	240	2,100	950	420	500 U
	3/31/10 S	5,800	7,100	2,400	920	100	70,000	200 U	200 U	220	200 U	200 U	200 U	3,400	820	390	500 U
	12/20/10 S	2,600	7,100	400 U	400 U	200 U	42,000	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	1,000 U
GW-04																	
	9/02/08 S	3,400	1,500	20 U	460	11	21,000	34	3,700	180	51	38	1,100	6,200	2,900	910	50 U
	3/31/09 S	20 U	20 U	20 U	1,100	20	72,000	190	7,300	140	43	52	1,300	8,200	3,500	1,000	50 U
	1/04/10 S	120	100 U	100 U	320	50 U	10,000	100 U	1,600	100 U	100 U	100 U	450	3,400	1,500	520	250 U
	4/01/10 S	20 U	20 U	20 U	180	10 U	660	20 U	3,000	140	49	34	800	6,600	2,500	820	50 U
	12/21/10 S	98	270	40 U	84	29	23,000	40 U	1,800	60	40 U	40 U	120	1,000	450	210	100 U

Notes:

VOC = volatile organic compound
ppb = parts per billion
U = compound was not detected at the indicated concentration.
J = estimated concentration
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
G = grab sample was collected after attempting EPA low flow sampling procedures; the well was purged unti dry and allowed to recharge before the sample was collected.
S = sample collected via EPA low flow methodology.

DRAFT

Table 9

Increasing and Decreasing Volatile Organic Compound Concentrations within the Upper Sands Treatment Area

Dover Municipal Landfill Superfund Site, Dover, NH

'= Decreasing Concentration (April 2009 through December 2010) = Increasing Concentration (April 2009 through December 2010)

Recurring Ground Water Sampling Location Results

Well ID	Sample Date	PCE		TCE		1,1,1-TCA		1,1-DCA		1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		Vinyl Chloride		Methylene Chloride		Benzene		Ethylbenzene		Toluene		m,p-Xylenes		o-Xylene		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene	
		Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change
GW-1	4/1/09	20		20		20		1,100		20		2,600		190		7,300		50		52		1,300		8,200		3,500		1,000		140		43	
	1/4/10	40	-2,550	100	-1,750	810	-1,750	1,800	-100	22	nc	14,000	-142	72	47	5,000	-462	100	-560	40	nc	140	89	2,300	67	560	86	230	78	66	29	40	nc
	3/31/10	350		5,000		550		560		50		12,000		100		2,100		250		100		140		2,400		580		230		100		100	
	12/20/10	530		370		370		2,200		50		6,300		100		41,000		330		100		140		2,700		500		220		100		100	
GW-2	3/31/09	100		100		200		3,600		50		19,000		100		2,200		2,100		100		950		23,000		2,500		740		550		130	
	1/4/10	100	nc	100	nc	100	95	130	99	50	nc	100	99	100	nc	150	95	250	98	100	nc	100	87	1,600	87	180	89	100	81	100	82	100	75
	3/31/10	10		10		10		42		5		110		10		120		51		14		120		2,900		270		140		100		32	
GW-3	3/31/09	33,000		8,000		20,000		6,900		500		150,000		1,000		2,900		9,600		1,000		2,300		44,000		7,700		2,300		1,000		1,000	
	1/4/10	17,000	92	15,000	11	1,600	98	220	94	100	nc	34,000	72	200	nc	420	86	500	90	200	nc	240	83	2,100	99	950	95	420	83	240	nc	200	nc
	3/31/10	5,800		7,100		2,400		920		100		70,000		200		200		500		200		200		3,400		820		390		220		200	
	12/20/10	2,600		7,100		400		400		200		42,000		400		400		1,000		400		400		400		400		400		400		400	
GW-4	3/31/09	36		20		75		600		10		72,000		21		1,400		180		20		410		5,500		1,500		540		270		96	
	1/4/10	120	-172	100	-1,250	100	47	320	86	50	-190	10,000	68	100	-90	1,600	-29	250	44	100	nc	450	71	3,400	82	1,500	70	520	61	100	78	100	58
	4/1/10	20		20		20		180		10		660		20		3,000		50		34		800		6,600		2,500		820		140		49	
	12/21/10	98		270		40		84		29		23,000		40		1,800		100		40		120		1,000		450		210		60		40	
AS-4C	4/1/09	120,000		15,000		32,000		2,000		500		83,000		1,000		2,600		14,000		1,000		1,800		14,000		5,200		1,300		1,000		1,000	
	1/4/10	300	95	2,600	78	1,400	95	290	82	50	nc	14,000	72	100	nc	100	92	650	96	100	nc	100	89	2,000	94	100	96	100	85	100	nc	100	nc
	3/31/10	150		860		3,100		810		100		55,000		110		480		250		100		290		3,500		1,100		390		100		100	
	12/20/10	6,300		3,300		1,600		360		100		23,000		200		200		500		200		200		900		200		200		200		200	
AS-13B	4/1/09	40		40		40		97		20		40		40		40		100		40		300		7,800		770		280		220		61	
	1/4/10	2	nc	2	nc	2	nc	46	46	1	nc	19	-650	2	nc	64	-200	5	nc	3	nc	5	99	11	100	3	99	5	95	4	99	2	97
	3/31/10	2		2		2		42		1		14		5		75		9		3		50		1,200		97		54		28		9	
	12/20/10	10		6		2		52		1		300		2		120		5		2		3		32		4		13		2		2	
AS-14A	3/31/09	400		400		3,100		9,200		200		39,000		400		850		51,000		400		1,600		100,000		4,600		1,300		430		400	
	1/4/10	2	nc	2	nc	3	100	45	100	1	nc	320	100	2	nc	27	93	5	100	2	nc	3	100	110	100	8	99	4	98	5	98	2	nc
	3/31/10	20		20		20		250		10		2,600		20		710		50		20		33		2,300		110		74		55		24	
	12/21/10	2		2		2		30		1		180		2		59		5		2		5		320		32		29		8		15	
AS-15A	4/1/09	200		200		2,600		7,200		100		40,000		200		1,300		61,000		200		310		28,000		910		300		200		200	
	12/31/09	40	nc	40	nc	40	100	170	100	20	nc	6,500	99	40	nc	3,800	99	100	100	40	nc	40	99	850	100	150	100	69	99	40	nc	40	nc
	3/31/10	40		40		40		630		20		91		40		24,000		100		40		270		4,700		1,200		420		120		48	
	12/21/10	13		3		2		2		1		240		2		8		5		2		2		2		2		2		2		2	
AS-15D	4/1/09	130,000		6,900		9,600		7,000		500		220,000		1,000		3,200		41,000		1,000		2,700		47,000		8,100		2,300		1,000		1,000	
	12/31/09	1,000	100	1,400	94	1,000	96	1,900	81	3,800	nc	120,000	98	1,000	nc	1,000	-1,588	3,800	98	1,000	nc	1,000	85	11,000	91	1,000	95	1,000	83	1,000	nc	1,000	nc
	3/31/10	1,300		1,000		1,000		1,600		500		180,000		1,000		1,000		2,500		1,000		1,000		28,000		1,400		1,000		1,000		1,000	
	12/21/10	400		400		400		1,300		200		5,000		400		54,000		1,000		400		400		4,100		400		400		400		400	
AS-16C	4/1/09	110,000		6,400		8,900		6,300		500		210,000		1,000		3,500		29,000		1,000		2,800		48,000		9,000		2,500		1,000		1,000	
	12/31/09	560	77	3,500	72	650	90	380	97	50	nc	18,000	93	100	nc	340	88	250	98	100	nc	100	92	1,400	77	350	84	200	72	100	nc	100	nc
	3/31/10	600		1,200		1,000		1,500		83		92,000		100		2,100		280		100		580		13,000		2,600		860		290		110	
	12/20/10	25,000		1,800		870		200		100		15,000		200		430		500		200		230		11,000		1,400		710		200		200	
AS-27B	3/31/09	400		400		400		1,500		200		83,000		400		4,500		1,000		400		870		14,000		2,600		850		400		400	
	12/1/09	390	90	290	88	40	nc	320	88	20	nc	5,000	93	40	nc	2,800	7	100	nc	40	nc	450	95	3,600	97	1,700	95	1,200	82	73	90	40	nc
	4/1/10	1,100		460		40		160		20		3,400		40		700		100		40		1,500		5,700		5,600		3,000		520		160	
	12/21/10	40		47		40		180		20		6,000		40		4,200		100		40		42		490		140		150		40		40	
AS-2E	4/1/09	100		100		100		100		50		100		100		100		250		100		100		100		100		100		100		100	
	1/4/10	4	nc	3	nc	2	nc	2	nc	1	nc	18	nc	2	nc	2	nc	5	nc	2	nc	2	nc	2	nc	2	nc	2	nc	2	nc	2	nc
	3/31/10	22		26		2		2		1		64		2		2		5		2		2		6		4		3		5		2	
	12/21/10	2		2		2		2		1		24		2		2		5		2		2		2		2		2		2		2	
AS-7E	3/31/09	21		10		10		290		5		36		10		930		25		35		440		3,000		1,300		430		200		60	
	12/31/09	20	52	20	nc	20	nc	100	62	10	nc	110	-4,344	20	-100	1,800	-352	50	nc	20	71	290	93	2,800	95	940	98	360	93	150	95	43	83
	3/31/10	20		20		20		95		10		20		20		20		50		20		160		1,200		510		190		100		34	
	12/21/10	10		10		10		110		5		1,600		20		4,200		25		10		29		160		20		30		10		10	

Notes:

2,600 - red font indicates the analyte was detected in the method blank. No additional sample remained for re-analysis.
500 - blue font indicates result is less than the indicated laboratory reporting limit
nc - not calculated; sampling results were below laboratory reporting limits
ug/L = micrograms/Liter
Sampling conducted at well AS-28B was moved to AS-25B due to obstruction in well riser - Neither location has been presented due to limited data.
Trends with less than 50 ppb of change between 4/09 and 12/10 indicated as no change

PCE = Tetrachloroethene
TCE = Trichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene

Table 10
Baseline Analytical Results from Soil Vapor Extraction Wells
Dover Municipal Landfill Superfund Site, Dover, NH

Sample ID	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppbv)															
SVE-05																	
	9/3/2008	65	32 U	140	280	32 U	810	32 U	2,000	32 U	32 U	32 U	32 U	32 U	32 U	32 U	32 U
	4/1/2009	30 U	37	53	360	62	240	30 U	10,000	30 U	30 U	30 U	30 U	52	30 U	30 U	30 U
	4/1/2010	800	140	400	2,300	94	5,600	190	32,000	47 U	47 U	53	47 U	510	51	47 U	92
	2/7/2011	850	270	1,000	4,300	280	14,000	150	37,000	48 U	48 U	51	50	470 J	150 J	95	89
SVE-05 (Duplicate)																	
	2/7/2011	710	240	960	3,900	260	13,000	130	34,000	44 U	44 U	44 U	44 U	150 J	62 J	59	110
SVE-07																	
	9/3/2008	530	1,100	7,300	7,800	88 U	5,700	88 U	6,000	100	92	400	1,300	17,000	2,100	650	230
	4/1/2009	46	35	430	1,300	15 U	760	16	2,000	120	120 J	90	610	5,400	1,400	480	40
	4/1/2010	370	130	460	1,500	51	3,400	69	13,000	60	170	28	73	1,100	180	230	640
	2/7/2011	1,100	510	450	5,000	250	10,000	120	19,000	300	220	80	1,200	4,100	690	460	390
SVE-09																	
	9/3/2008	500	200 U	220	2,000	200 U	3,700	200 U	9,000	200 U	200 U	200 U	1,400	7,000	7,900	1,800	510
	4/1/2009	1,100	3,300	22,000	34,000	4,900	290,000	1,100	560,000	560 U	560 U	590	25,000	460,000	30,000	4,000	14,000
	4/1/2010	4,700	1,200	12,000	18,000	910	120,000	930	190,000	380 U	380 U	380 U	1,200	100,000	7,900	2,200	5,400
	2/7/2011	16,000	8,200	4,600	14,000	1,500	150,000	720	22,000	2,200	1,600	1,500	23,000	330,000	45,000	10,000	1,000
SVE-12																	
	9/3/2008	1,600	850	3,000	13,000	380	42,000	320	120,000	210 U	210 U	340	210 U	3,600	350	210 U	210 U
	4/1/2009	300 U	300 U	1,100	6,700	300 U	16,000	300 U	150,000	300 U	300 U	300 U	300 U	16,000	570	300 U	300 U
	4/1/2010	19,000	5,200	2,300	3,200	240	46,000	420	41,000	280	320	85	350	5,700	1,500	1,000	1,300
	2/7/2011	2,900	630	640	1,300	270	33,000	140	90,000	130 U	130 U	130 U	130 U	2,600	270	130 U	130 U
SVE-12 (Duplicate)																	
	9/3/2008	1,500	880	3,400	14,000	460	47,000	340	140,000	200 U	200 U	280	200 U	5,400	660	210	200 U
SVE-16																	
	9/3/2008	1,000,000	520,000	84,000	120,000	18,000	2,600,000	20,000	920,000	4,000 U	4,000 U	4,000 U	20,000	540,000	45,000	10,000	1,300,000
	4/1/2009	120,000	54,000	5,400	46,000	11,000	2,300,000	9,000	550,000	2,700 U	2,700 U	2,700 U	7,900	290,000	15,000	2,900	350,000
	4/1/2010	95,000	27,000	3,400	4,500	680	220,000	1,400	130,000	430 U	500	430 U	1,900	33,000	6,900	4,500	13,000
	2/7/2011	19,000	12,000	670 U	6,700	2,700	440,000	2,300	240,000	2,400	2,200	670 U	10,000	78,000	31,000	14,000	670 U
SVE-16 (Duplicate)																	
	4/1/2009	160,000	68,000	6,400	47,000	11,000	2,300,000	9,000	580,000	3,000 U	3,000 U	3,000 U	11,000	340,000	21,000	4,200	340,000
SVE-18																	
	9/3/2008	750	1,100	140 U	910	170	52,000	140 U	34,000	140 U	140 U	1,400	16,000	140,000	35,000	9,600	890
	4/1/2009	310	340	110 U	490	110 U	20,000	110 U	21,000	170	160	710	9,200	58,000	21,000	6,000	380
	4/1/2010	2,800	1,700	160 U	650	190	23,000	290	100,000	160 U	160 U	160 U	1,100	6,900	2,800	1,100	290
	2/7/2011	620	360	61 U	320	93	13,000	140	36,000	1,200	830	150	2,800	10,000	7,800	3,000	2,000

Table 10
Baseline Analytical Results from Soil Vapor Extraction Wells

Dover Municipal Landfill Superfund Site, Dover, NH

Sample ID	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppbv)															
SVE-22																	
	4/1/2010	5,300	980	480	1,500	85	16,000	210	15,000	98	81	30 U	48	470	180	120	560
	2/7/2011	1,900	520	69	380	170	32,000	130	41,000	48 U	48 U	48 U	64	500	180	450	48 U
SVE-22 (Duplicate)																	
	4/1/2010	4,900	920	440	1,400	81	15,000	200	14,000	92	77	20 U	46	430	170	110	520
SVE-26																	
	9/3/2008	1,700	4,400	300 U	300 U	300 U	22,000	300 U	6,200	300 U	300 U	370	300 U	1,800	300 U	300 U	300 U
	4/1/2009	3	1 U	1 U	3	1 U	230	1 U	80	1 U	1 U	18	6	79	11	2	1

Notes:

SVE = soil vapor extraction
VOC = volatile organic compound
ppbv = parts per billion by volume
U = compound was not detected at the indicated concentration
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene

Table 11
AS and SVE System Mass Removal Total
Dover Muncipal Landfill Superfund Site, Dover, NH

Sample ID	Operational System Component	Sample Date	Cumulative Run Time	Flow Rate	Tetrachloroethene			Trichloroethene			1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene		
			hours	scfm	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	total lbs
Stack-042110-B	SVE - Startup	4/21/2010	0	750	59	1.124	NC	9.5	0.143	NC	7.2	0.110	NC	6.4	0.073	NC	0.4	0.005	NC	87	0.968	NC
Stack-052710-B&D	AS+SVE	5/27/2010	662	740	100	1.879	994	6.9	0.103	81	6.3	0.095	68	2.8	0.031	35	0.0	0.000	1.6	42	0.461	473
SVESTACK061510	AS+SVE	6/15/2010	1,064	750	90	1.714	723	5.9	0.089	39	4.9	0.075	34	2.4	0.027	12	0.0	0.000	0.0	36	0.400	173
SVESTACK061710	AS+SVE	6/17/2010	1,091	700	150	2.667	60	9.6	0.135	3	6.6	0.094	2	3.4	0.036	1	0.0	0.000	0.0	59	0.613	14
SVESTACK072210	AS+SVE	7/22/2010	1,647	700	160	2.844	1,531	12	0.169	84	6.1	0.087	51	3.2	0.034	19	0.0	0.000	0.0	54	0.561	326
SVESTACK082610	AS+SVE	8/26/2010	2,229	700	210	3.733	1,914	15	0.211	111	8.4	0.120	60	4.0	0.042	22	0.0	0.000	0.0	51	0.530	317
SVESTACK100710	AS+SVE	10/7/2010	2,959	740	160	3.007	2,459	14	0.208	153	8.5	0.129	91	4.9	0.055	36	0.0	0.000	0.0	61	0.670	437
SVESTACK102910	AS+SVE	10/29/2010	3,455	725	200	3.682	1,661	15	0.219	106	9.6	0.142	67	4.7	0.052	26	0.0	0.000	0.0	52	0.559	305
SVESTACK111810	AS+SVE	11/18/2010	3,932	700	110	1.955	1,344	6	0.090	74	4.3	0.062	49	1.9	0.020	17	0.0	0.000	0.0	18	0.187	178
Total Mass Removed:							**10,684**			**651**			**422**			**168**			**2**			**2,223**

Sample ID	Operational System Component	Sample Date	Cumulative Run Time	Flow Rate	trans-1,2-Dichloroethene			Vinyl Chloride			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			Benzene			Ethylbenzene		
			hours	scfm	ppmv	lb/hr	total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs
Stack-042110-B	SVE - Startup	4/21/2010	0	750	0.6	0.006	NC	77	0.554	NC	0.99	0.014	NC	0.7	0.010	NC	0.0	0.000	NC	3.7	0.045	NC
Stack-052710-B&D	AS+SVE	5/27/2010	662	740	0.2	0.002	2.8	4.2	0.030	193	2.4	0.033	15	1.7	0.023	11	0.0	0.000	0.0	3.8	0.000	15
SVESTACK061510	AS+SVE	6/15/2010	1,064	750	0.2	0.002	0.9	6.0	0.043	15	1.9	0.026	12	1.3	0.018	8	0.0	0.000	0.0	3.2	0.000	0
SVESTACK061710	AS+SVE	6/17/2010	1,091	700	0.3	0.003	0.1	5.2	0.035	1	3.4	0.044	1	2.2	0.028	1	0.0	0.000	0.0	5.8	0.000	0
SVESTACK072210	AS+SVE	7/22/2010	1,647	700	0.0	0.000	1	5.1	0.072	30	6.3	0.090	37	3.8	0.040	19	0.0	0.000	0.0	8.3	0.086	24
SVESTACK082610	AS+SVE	8/26/2010	2,229	700	0.3	0.005	2	4.8	0.068	41	7.8	0.112	59	4.7	0.050	26	0.0	0.000	0.0	12	0.125	61
SVESTACK100710	AS+SVE	10/7/2010	2,959	740	0.4	0.007	4	6.2	0.092	58	7.0	0.106	79	4.1	0.046	35	0.0	0.000	0.0	9.6	0.105	84
SVESTACK102910	AS+SVE	10/29/2010	3,455	725	0.4	0.007	4	4.5	0.066	39	9.6	0.142	62	5.1	0.056	25	0.0	0.000	0.0	13	0.140	61
SVESTACK111810	AS+SVE	11/18/2010	3,932	700	0.0	0.000	2	1.4	0.020	20	4.0	0.057	48	2.3	0.024	19	0.0	0.000	0.0	5	0.052	46
Total Mass Removed:							**16**			**397**			**313**			**145**			**0**			**291**

Sample ID	Operational System Component	Sample Date	Cumulative Run Time	Flow Rate	Toluene			m&p-Xylenes			o-Xylene			Methylene Chloride			Total VOCs Removed in 2010		
			hours	scfm	ppmv	lb/hr	total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	total lbs	ppmv	lb/day	total lbs
Stack-042110-B	SVE - Startup	4/21/2010	0	750	56	0.593	NC	13	0.158	NC	4.1	0.050	NC	24	0.234	NC	350	98	NC
Stack-052710-B&D	AS+SVE	5/27/2010	662	740	42	0.439	342	16	0.192	116	6.7	0.081	43	9.7	0.093	108	245	83	2,499
SVESTACK061510	AS+SVE	6/15/2010	1,064	750	30	0.318	152	13	0.158	71	5.5	0.067	30	8.1	0.079	35	208	72	1,303
SVESTACK061710	AS+SVE	6/17/2010	1,091	700	58	0.573	12	26	0.296	6	10	0.114	2	16	0.146	3	355	115	106
SVESTACK072210	AS+SVE	7/22/2010	1,647	700	68	1.209	495	34	0.479	215	13	0.186	83	14	0.149	82	388	144	2,997
SVESTACK082610	AS+SVE	8/26/2010	2,229	700	91	1.618	823	42	0.591	311	17	0.243	125	18	0.191	99	486	183	3,971
SVESTACK100710	AS+SVE	10/7/2010	2,959	740	82	1.541	1,152	32	0.476	389	13	0.197	161	24	0.269	168	427	166	5,307
SVESTACK102910	AS+SVE	10/29/2010	3,455	725	83	1.528	762	45	0.656	281	18	0.267	115	28	0.308	143	488	188	3,658
SVESTACK111810	AS+SVE	11/18/2010	3,932	700	31	0.551	495	16	0.225	210	6.7	0.096	86	9	0.096	96	216	82	2,683
Total Mass Removed:							**4,233**			**1,600**			**646**			**734**			**22,525**
																Total VOCs Removed in 2009:			**17,603**
																Total VOCs Removed:			**40,128**

Notes:

scfm = standard cubic feet per minute
ppmv = parts per million by volume
hr = hour
NC = not calculated
lb = pound
SVE = system operating in soil vapor extraction mode only
AS = system operating in air sparging and soil vapor extraction mode
VOCs = volatile organic compounds

APPENDIX A

LABORATORY ANALYTICAL REPORTS

Air Toxics LTD.
Laboratory Services Since 1989

5/5/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 1004446

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 4/22/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1004446

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885
PHONE:	603-778-1100	**P.O. #**	1509
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	04/22/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	04/27/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE STACK 042110	Modified TO-15 (5&20 ppbv)	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 05/05/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1004446

One 1 Liter Tedlar Bag sample was received on April 22, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: SVE STACK 042110

Lab ID#: 1004446-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	120	77000	320	200000
Chloroethane	120	1400	330	3600
Freon 11	120	3200	700	18000
Freon 113	120	840	960	6400
1,1-Dichloroethene	120	430	500	1700
Acetone	500	540	1200	1300
Methylene Chloride	120	24000	430	84000
trans-1,2-Dichloroethene	120	560	500	2200
Hexane	120	1200	440	4200
1,1-Dichloroethane	120	6400	500	26000
cis-1,2-Dichloroethene	120	87000	500	340000
1,1,1-Trichloroethane	120	7200	680	39000
Cyclohexane	120	580	430	2000
2,2,4-Trimethylpentane	120	150	580	710
Heptane	120	1700	510	7000
Trichloroethene	120	9500	670	51000
4-Methyl-2-pentanone	120	520	510	2100
Toluene	120	56000	470	210000
Tetrachloroethene	120	59000	850	400000
Ethyl Benzene	120	3700	540	16000
m,p-Xylene	120	13000	540	58000
o-Xylene	120	4100	540	18000
Cumene	120	220	610	1100
Propylbenzene	120	260	610	1300
4-Ethyltoluene	120	1600	610	7700
1,3,5-Trimethylbenzene	120	740	610	3600
1,2,4-Trimethylbenzene	120	990	610	4900

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 042110

Lab ID#: 1004446-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w042316	Date of Collection:	4/21/10 2:20:00 PM
Dil. Factor:	25.0	Date of Analysis:	4/23/10 05:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	620	Not Detected
Freon 114	120	Not Detected	870	Not Detected
Chloromethane	500	Not Detected	1000	Not Detected
Vinyl Chloride	120	77000	320	200000
1,3-Butadiene	120	Not Detected	280	Not Detected
Bromomethane	120	Not Detected	480	Not Detected
Chloroethane	120	1400	330	3600
Freon 11	120	3200	700	18000
Ethanol	500	Not Detected	940	Not Detected
Freon 113	120	840	960	6400
1,1-Dichloroethene	120	430	500	1700
Acetone	500	540	1200	1300
2-Propanol	500	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	390	Not Detected
3-Chloropropene	500	Not Detected	1600	Not Detected
Methylene Chloride	120	24000	430	84000
Methyl tert-butyl ether	120	Not Detected	450	Not Detected
trans-1,2-Dichloroethene	120	560	500	2200
Hexane	120	1200	440	4200
1,1-Dichloroethane	120	6400	500	26000
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	370	Not Detected
cis-1,2-Dichloroethene	120	87000	500	340000
Tetrahydrofuran	120	Not Detected	370	Not Detected
Chloroform	120	Not Detected	610	Not Detected
1,1,1-Trichloroethane	120	7200	680	39000
Cyclohexane	120	580	430	2000
Carbon Tetrachloride	120	Not Detected	790	Not Detected
2,2,4-Trimethylpentane	120	150	580	710
Benzene	120	Not Detected	400	Not Detected
1,2-Dichloroethane	120	Not Detected	500	Not Detected
Heptane	120	1700	510	7000
Trichloroethene	120	9500	670	51000
1,2-Dichloropropane	120	Not Detected	580	Not Detected
1,4-Dioxane	500	Not Detected	1800	Not Detected
Bromodichloromethane	120	Not Detected	840	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	570	Not Detected
4-Methyl-2-pentanone	120	520	510	2100
Toluene	120	56000	470	210000
trans-1,3-Dichloropropene	120	Not Detected	570	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 042110

Lab ID#: 1004446-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w042316**	**Date of Collection:**	**4/21/10 2:20:00 PM**
Dil. Factor:	**25.0**	**Date of Analysis:**	**4/23/10 05:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	120	Not Detected	680	Not Detected
Tetrachloroethene	120	59000	850	400000
2-Hexanone	500	Not Detected	2000	Not Detected
Dibromochloromethane	120	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	960	Not Detected
Chlorobenzene	120	Not Detected	580	Not Detected
Ethyl Benzene	120	3700	540	16000
m,p-Xylene	120	13000	540	58000
o-Xylene	120	4100	540	18000
Styrene	120	Not Detected	530	Not Detected
Bromoform	120	Not Detected	1300	Not Detected
Cumene	120	220	610	1100
1,1,2,2-Tetrachloroethane	120	Not Detected	860	Not Detected
Propylbenzene	120	260	610	1300
4-Ethyltoluene	120	1600	610	7700
1,3,5-Trimethylbenzene	120	740	610	3600
1,2,4-Trimethylbenzene	120	990	610	4900
1,3-Dichlorobenzene	120	Not Detected	750	Not Detected
1,4-Dichlorobenzene	120	Not Detected	750	Not Detected
alpha-Chlorotoluene	120	Not Detected	650	Not Detected
1,2-Dichlorobenzene	120	Not Detected	750	Not Detected
1,2,4-Trichlorobenzene	500	Not Detected	3700	Not Detected
Hexachlorobutadiene	500	Not Detected	5300	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1004446-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w042306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/10 09:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1004446-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w042306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/10 09:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1004446-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w042302**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/10 07:58 AM**

Compound	%Recovery
Freon 12	106
Freon 114	108
Chloromethane	88
Vinyl Chloride	96
1,3-Butadiene	93
Bromomethane	116
Chloroethane	101
Freon 11	109
Ethanol	91
Freon 113	109
1,1-Dichloroethene	104
Acetone	104
2-Propanol	92
Carbon Disulfide	105
3-Chloropropene	104
Methylene Chloride	96
Methyl tert-butyl ether	121
trans-1,2-Dichloroethene	110
Hexane	100
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	103
Tetrahydrofuran	90
Chloroform	107
1,1,1-Trichloroethane	110
Cyclohexane	105
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	98
Benzene	104
1,2-Dichloroethane	106
Heptane	106
Trichloroethene	103
1,2-Dichloropropane	101
1,4-Dioxane	107
Bromodichloromethane	108
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	107
Toluene	108
trans-1,3-Dichloropropene	108

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1004446-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w042302**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/10 07:58 AM**

Compound	%Recovery
1,1,2-Trichloroethane	111
Tetrachloroethene	114
2-Hexanone	98
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	114
Chlorobenzene	109
Ethyl Benzene	109
m,p-Xylene	112
o-Xylene	110
Styrene	107
Bromoform	115
Cumene	111
1,1,2,2-Tetrachloroethane	109
Propylbenzene	107
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	116
alpha-Chlorotoluene	120
1,2-Dichlorobenzene	116
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1004446-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w042303**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/10 08:24 AM**

Compound	%Recovery
Freon 12	108
Freon 114	112
Chloromethane	88
Vinyl Chloride	97
1,3-Butadiene	95
Bromomethane	117
Chloroethane	105
Freon 11	111
Ethanol	88
Freon 113	101
1,1-Dichloroethene	94
Acetone	97
2-Propanol	93
Carbon Disulfide	106
3-Chloropropene	105
Methylene Chloride	89
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	113
Hexane	98
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	103
Tetrahydrofuran	93
Chloroform	106
1,1,1-Trichloroethane	110
Cyclohexane	106
Carbon Tetrachloride	111
2,2,4-Trimethylpentane	100
Benzene	104
1,2-Dichloroethane	104
Heptane	105
Trichloroethene	106
1,2-Dichloropropane	102
1,4-Dioxane	109
Bromodichloromethane	108
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	109
Toluene	105
trans-1,3-Dichloropropene	110

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1004446-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w042303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/10 08:24 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	114
Tetrachloroethene	115
2-Hexanone	106
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	119
Chlorobenzene	111
Ethyl Benzene	112
m,p-Xylene	114
o-Xylene	113
Styrene	122
Bromoform	117
Cumene	110
1,1,2,2-Tetrachloroethane	113
Propylbenzene	109
4-Ethyltoluene	115
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	116
1,4-Dichlorobenzene	122
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	119
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Dennis Keane
Collected by: (Print and Sign) Jeff Hillman
Company: XDD. LLC Email: keane@xddllc.com
Address: 22 macin way #3 City: Strafham State: NH Zip: 03885
Phone: 603-778-1100 Fax: 603-778-2121

Project Info:
P.O. #: ~~8444~~ JH
Project #: 8441
Project Name: Dover Landfill

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: ___
Date: ___
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	Sve start 042110		04/21/10	14:20	TO-15				

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Jeff Hillman	04-21-10 16:00	TO Fedex	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only

Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
				Yes No None	

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

6/14/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name:
Project #:
Workorder #: 1005654

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 5/28/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1005654

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	1821
FAX:	603-778-2121	**PROJECT #**	
DATE RECEIVED:	05/28/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	06/14/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVESTACK5-27-10	Modified TO-15 (5&20 ppbv	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 06/14/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1005654

One 1 Liter Tedlar Bag sample was received on May 28, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: SVESTACK5-27-10

Lab ID#: 1005654-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	290	620	1400
Vinyl Chloride	120	4200	320	11000
Freon 11	120	860	700	4800
Freon 113	120	310	960	2300
Methylene Chloride	120	9700	430	34000
trans-1,2-Dichloroethene	120	210	500	820
Hexane	120	260	440	900
1,1-Dichloroethane	120	2800	500	11000
cis-1,2-Dichloroethene	120	42000	500	170000
1,1,1-Trichloroethane	120	6300	680	34000
Heptane	120	670	510	2700
Trichloroethene	120	6900	670	37000
4-Methyl-2-pentanone	120	280	510	1200
Toluene	120	42000	470	160000
Tetrachloroethene	120	100000	850	720000
Ethyl Benzene	120	3800	540	16000
m,p-Xylene	120	16000	540	71000
o-Xylene	120	6700	540	29000
Cumene	120	340	610	1600
Propylbenzene	120	450	610	2200
4-Ethyltoluene	120	3500	610	17000
1,3,5-Trimethylbenzene	120	1700	610	8300
1,2,4-Trimethylbenzene	120	2400	610	12000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK5-27-10

Lab ID#: 1005654-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052813**	**Date of Collection:**	**5/27/10 11:05:00 AM**
Dil. Factor:	**25.0**	**Date of Analysis:**	**5/28/10 10:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	290	620	1400
Freon 114	120	Not Detected	870	Not Detected
Chloromethane	500	Not Detected	1000	Not Detected
Vinyl Chloride	120	4200	320	11000
1,3-Butadiene	120	Not Detected	280	Not Detected
Bromomethane	120	Not Detected	480	Not Detected
Chloroethane	120	Not Detected	330	Not Detected
Freon 11	120	860	700	4800
Ethanol	500	Not Detected	940	Not Detected
Freon 113	120	310	960	2300
1,1-Dichloroethene	120	Not Detected	500	Not Detected
Acetone	500	Not Detected	1200	Not Detected
2-Propanol	500	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	390	Not Detected
3-Chloropropene	500	Not Detected	1600	Not Detected
Methylene Chloride	120	9700	430	34000
Methyl tert-butyl ether	120	Not Detected	450	Not Detected
trans-1,2-Dichloroethene	120	210	500	820
Hexane	120	260	440	900
1,1-Dichloroethane	120	2800	500	11000
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	370	Not Detected
cis-1,2-Dichloroethene	120	42000	500	170000
Tetrahydrofuran	120	Not Detected	370	Not Detected
Chloroform	120	Not Detected	610	Not Detected
1,1,1-Trichloroethane	120	6300	680	34000
Cyclohexane	120	Not Detected	430	Not Detected
Carbon Tetrachloride	120	Not Detected	790	Not Detected
2,2,4-Trimethylpentane	120	Not Detected	580	Not Detected
Benzene	120	Not Detected	400	Not Detected
1,2-Dichloroethane	120	Not Detected	500	Not Detected
Heptane	120	670	510	2700
Trichloroethene	120	6900	670	37000
1,2-Dichloropropane	120	Not Detected	580	Not Detected
1,4-Dioxane	500	Not Detected	1800	Not Detected
Bromodichloromethane	120	Not Detected	840	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	570	Not Detected
4-Methyl-2-pentanone	120	280	510	1200
Toluene	120	42000	470	160000
trans-1,3-Dichloropropene	120	Not Detected	570	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK5-27-10

Lab ID#: 1005654-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052813**	**Date of Collection:**	**5/27/10 11:05:00 AM**
Dil. Factor:	**25.0**	**Date of Analysis:**	**5/28/10 10:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	120	Not Detected	680	Not Detected
Tetrachloroethene	120	100000	850	720000
2-Hexanone	500	Not Detected	2000	Not Detected
Dibromochloromethane	120	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	960	Not Detected
Chlorobenzene	120	Not Detected	580	Not Detected
Ethyl Benzene	120	3800	540	16000
m,p-Xylene	120	16000	540	71000
o-Xylene	120	6700	540	29000
Styrene	120	Not Detected	530	Not Detected
Bromoform	120	Not Detected	1300	Not Detected
Cumene	120	340	610	1600
1,1,2,2-Tetrachloroethane	120	Not Detected	860	Not Detected
Propylbenzene	120	450	610	2200
4-Ethyltoluene	120	3500	610	17000
1,3,5-Trimethylbenzene	120	1700	610	8300
1,2,4-Trimethylbenzene	120	2400	610	12000
1,3-Dichlorobenzene	120	Not Detected	750	Not Detected
1,4-Dichlorobenzene	120	Not Detected	750	Not Detected
alpha-Chlorotoluene	120	Not Detected	650	Not Detected
1,2-Dichlorobenzene	120	Not Detected	750	Not Detected
1,2,4-Trichlorobenzene	500	Not Detected	3700	Not Detected
Hexachlorobutadiene	500	Not Detected	5300	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005654-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 05:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005654-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 05:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005654-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 03:34 PM**

Compound	%Recovery
Freon 12	94
Freon 114	96
Chloromethane	94
Vinyl Chloride	99
1,3-Butadiene	96
Bromomethane	102
Chloroethane	94
Freon 11	96
Ethanol	88
Freon 113	98
1,1-Dichloroethene	92
Acetone	96
2-Propanol	87
Carbon Disulfide	96
3-Chloropropene	93
Methylene Chloride	93
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	97
Hexane	91
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	93
Tetrahydrofuran	92
Chloroform	98
1,1,1-Trichloroethane	93
Cyclohexane	95
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	93
Benzene	97
1,2-Dichloroethane	95
Heptane	94
Trichloroethene	82
1,2-Dichloropropane	95
1,4-Dioxane	96
Bromodichloromethane	97
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	90
Toluene	97
trans-1,3-Dichloropropene	92

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005654-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 03:34 PM**

Compound	%Recovery
1,1,2-Trichloroethane	99
Tetrachloroethene	101
2-Hexanone	91
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	99
Chlorobenzene	100
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	96
Styrene	94
Bromoform	98
Cumene	102
1,1,2,2-Tetrachloroethane	98
Propylbenzene	99
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005654-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 03:58 PM**

Compound	%Recovery
Freon 12	92
Freon 114	96
Chloromethane	93
Vinyl Chloride	96
1,3-Butadiene	94
Bromomethane	99
Chloroethane	92
Freon 11	93
Ethanol	79
Freon 113	86
1,1-Dichloroethene	81
Acetone	89
2-Propanol	81
Carbon Disulfide	92
3-Chloropropene	87
Methylene Chloride	83
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	93
Hexane	86
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	89
Tetrahydrofuran	88
Chloroform	91
1,1,1-Trichloroethane	88
Cyclohexane	90
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	88
Benzene	90
1,2-Dichloroethane	90
Heptane	90
Trichloroethene	80
1,2-Dichloropropane	94
1,4-Dioxane	94
Bromodichloromethane	93
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	87
Toluene	89
trans-1,3-Dichloropropene	91

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005654-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w052803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 03:58 PM**

Compound	%Recovery
1,1,2-Trichloroethane	95
Tetrachloroethene	97
2-Hexanone	86
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	100
Chlorobenzene	97
Ethyl Benzene	95
m,p-Xylene	95
o-Xylene	93
Styrene	94
Bromoform	97
Cumene	97
1,1,2,2-Tetrachloroethane	97
Propylbenzene	96
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	132 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page ____ of ____

Project Manager Dennis Keane
Collected by: (Print and Sign) Don Wise Don Wise
Company XDD-LLC Email Keane@XDD-LLC.com
Address 22 marin WAY City Strafham State NH Zip 03885
Phone 603-778-1100 Fax 603-778-2201

Project Info:
P.O. # ____
Project # ____
Project Name ____

Turn Around Time:
❑ Normal
❑ Rush
____ specify

Lab Use Only
Pressurized by: ____
Date: ____
Pressurization Gas:
N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
OA	SVESTACK 5-27-10		5-27-10	11:05A	TO-15				

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
Don Wise 5/27/10 4:30pm	Monica Gregsen AIR 5/28/10 8:10	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No None	1005654

Form 1293 rev.11

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Dennis Keane
Xpert Design & Diagnostics, LLC
22 Marin Way
Unit 3
Stratham, NH 03885

PO Number: None
Job ID: 19431
Date Received: 6/22/10

Project: Dover Landfill 84411

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 6/25/2010
Total number of pages: 8

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 84411
Job ID: 19431
Sample#: 19431-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 6/21/10 16:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
vinyl chloride	**13**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
methylene chloride	**710**	25	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
trans-1,2-dichloroethene	**13**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,1-dichloroethane	**68**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
t-butanol (TBA)	**270**	150	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
2-butanone (MEK)	**220**	50	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
cis-1,2-dichloroethene	**1700**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
tetrahydrofuran (THF)	**140**	50	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,1,1-trichloroethane	**53**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
trichloroethene	**190**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,4-dioxane	**400**	250	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**680**	50	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
toluene	**510**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
2-hexanone	**79**	50	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
tetrachloroethene	**1900**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19431
Sample#: 19431-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 6/21/10 16:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
ethylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
m&p-xylenes	**240**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
o-xylene	**430**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,3,5-trimethylbenzene	**91**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2,4-trimethylbenzene	**29**	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
toluene-D8 SUR	101	88-110	%	5	LMM		1001334	6/23/10	21:56	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	5	LMM		1001334	6/23/10	21:56	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19431
Sample#: 19431-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 6/21/10 16:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
tetrahydrofuran (THF)	**54**	10	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19431
Sample#: 19431-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 6/21/10 16:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	96	78-114	%	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
toluene-D8 SUR	98	88-110	%	1	LMM		1001334	6/23/10	19:39	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	1	LMM		1001334	6/23/10	19:39	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19431
Sample#: 19431-003
Sample ID: DUP-01
Matrix: Water
Sampled: 6/21/10 16:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
vinyl chloride	**12**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
methylene chloride	**640**	25	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
trans-1,2-dichloroethene	**14**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,1-dichloroethane	**62**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
t-butanol (TBA)	**250**	150	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
2-butanone (MEK)	**220**	50	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
cis-1,2-dichloroethene	**1500**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
tetrahydrofuran (THF)	**140**	50	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,1,1-trichloroethane	**50**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
trichloroethene	**180**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,4-dioxane	**380**	250	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**650**	50	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
toluene	**420**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
2-hexanone	**76**	50	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
tetrachloroethene	**1700**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19431
Sample#: 19431-003
Sample ID: DUP-01
Matrix: Water
Sampled: 6/21/10 16:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
ethylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
m&p-xylenes	**190**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
o-xylene	**400**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,3,5-trimethylbenzene	**84**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2,4-trimethylbenzene	**21**	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
toluene-D8 SUR	102	88-110	%	5	LMM		1001334	6/23/10	21:20	SW5030B8260B
4-bromofluorobenzene SUR	99	86-115	%	5	LMM		1001334	6/23/10	21:20	SW5030B8260B

Air Toxics LTD.
Laboratory Services Since 1989

6/30/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 1006375

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 6/16/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1006375

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	1849
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	06/16/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	06/30/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVESTACK061510	Modified TO-15 (5&20 ppbv	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 06/30/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1006375

One 1 Liter Tedlar Bag sample was received on June 16, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: SVESTACK061510

Lab ID#: 1006375-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	120	6000	320	15000
Freon 11	120	770	700	4300
Freon 113	120	240	960	1800
Acetone	500	490 J	1200	1200 J
Methylene Chloride	120	8100	430	28000
trans-1,2-Dichloroethene	120	210	500	830
Hexane	120	180	440	630
1,1-Dichloroethane	120	2400	500	9800
cis-1,2-Dichloroethene	120	36000	500	140000
1,1,1-Trichloroethane	120	4900	680	27000
Cyclohexane	120	260	430	890
Heptane	120	500	510	2100
Trichloroethene	120	5900	670	32000
4-Methyl-2-pentanone	120	200	510	810
Toluene	120	30000	470	120000
Tetrachloroethene	120	90000	850	610000
Ethyl Benzene	120	3200	540	14000
m,p-Xylene	120	13000	540	58000
o-Xylene	120	5500	540	24000
Cumene	120	290	610	1400
Propylbenzene	120	390	610	1900
4-Ethyltoluene	120	2700	610	13000
1,3,5-Trimethylbenzene	120	1300	610	6300
1,2,4-Trimethylbenzene	120	1900	610	9200

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK061510

Lab ID#: 1006375-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w061812	Date of Collection:	6/15/10 11:45:00 AM
Dil. Factor:	25.0	Date of Analysis:	6/18/10 03:46 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	620	Not Detected
Freon 114	120	Not Detected	870	Not Detected
Chloromethane	500	Not Detected	1000	Not Detected
Vinyl Chloride	120	6000	320	15000
1,3-Butadiene	120	Not Detected	280	Not Detected
Bromomethane	120	Not Detected	480	Not Detected
Chloroethane	120	Not Detected	330	Not Detected
Freon 11	120	770	700	4300
Ethanol	500	Not Detected	940	Not Detected
Freon 113	120	240	960	1800
1,1-Dichloroethene	120	Not Detected	500	Not Detected
Acetone	500	490 J	1200	1200 J
2-Propanol	500	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	390	Not Detected
3-Chloropropene	500	Not Detected	1600	Not Detected
Methylene Chloride	120	8100	430	28000
Methyl tert-butyl ether	120	Not Detected	450	Not Detected
trans-1,2-Dichloroethene	120	210	500	830
Hexane	120	180	440	630
1,1-Dichloroethane	120	2400	500	9800
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	370	Not Detected
cis-1,2-Dichloroethene	120	36000	500	140000
Tetrahydrofuran	120	Not Detected	370	Not Detected
Chloroform	120	Not Detected	610	Not Detected
1,1,1-Trichloroethane	120	4900	680	27000
Cyclohexane	120	260	430	890
Carbon Tetrachloride	120	Not Detected	790	Not Detected
2,2,4-Trimethylpentane	120	Not Detected	580	Not Detected
Benzene	120	Not Detected	400	Not Detected
1,2-Dichloroethane	120	Not Detected	500	Not Detected
Heptane	120	500	510	2100
Trichloroethene	120	5900	670	32000
1,2-Dichloropropane	120	Not Detected	580	Not Detected
1,4-Dioxane	500	Not Detected	1800	Not Detected
Bromodichloromethane	120	Not Detected	840	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	570	Not Detected
4-Methyl-2-pentanone	120	200	510	810
Toluene	120	30000	470	120000
trans-1,3-Dichloropropene	120	Not Detected	570	Not Detected
1,1,2-Trichloroethane	120	Not Detected	680	Not Detected
Tetrachloroethene	120	90000	850	610000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK061510

Lab ID#: 1006375-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061812**	**Date of Collection:**	**6/15/10 11:45:00 AM**
Dil. Factor:	**25.0**	**Date of Analysis:**	**6/18/10 03:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	500	Not Detected	2000	Not Detected
Dibromochloromethane	120	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	960	Not Detected
Chlorobenzene	120	Not Detected	580	Not Detected
Ethyl Benzene	120	3200	540	14000
m,p-Xylene	120	13000	540	58000
o-Xylene	120	5500	540	24000
Styrene	120	Not Detected	530	Not Detected
Bromoform	120	Not Detected	1300	Not Detected
Cumene	120	290	610	1400
1,1,2,2-Tetrachloroethane	120	Not Detected	860	Not Detected
Propylbenzene	120	390	610	1900
4-Ethyltoluene	120	2700	610	13000
1,3,5-Trimethylbenzene	120	1300	610	6300
1,2,4-Trimethylbenzene	120	1900	610	9200
1,3-Dichlorobenzene	120	Not Detected	750	Not Detected
1,4-Dichlorobenzene	120	Not Detected	750	Not Detected
alpha-Chlorotoluene	120	Not Detected	650	Not Detected
1,2-Dichlorobenzene	120	Not Detected	750	Not Detected
1,2,4-Trichlorobenzene	500	Not Detected	3700	Not Detected
Hexachlorobutadiene	500	Not Detected	5300	Not Detected

J = Estimated value.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1006375-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061810**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1006375-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061810**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1006375-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061806**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:13 AM**

Compound	%Recovery
Freon 12	98
Freon 114	96
Chloromethane	97
Vinyl Chloride	93
1,3-Butadiene	87
Bromomethane	100
Chloroethane	96
Freon 11	98
Ethanol	90
Freon 113	99
1,1-Dichloroethene	97
Acetone	97
2-Propanol	88
Carbon Disulfide	96
3-Chloropropene	93
Methylene Chloride	96
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	97
Hexane	92
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	95
Tetrahydrofuran	97
Chloroform	98
1,1,1-Trichloroethane	97
Cyclohexane	93
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	96
Benzene	96
1,2-Dichloroethane	100
Heptane	95
Trichloroethene	82
1,2-Dichloropropane	98
1,4-Dioxane	97
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	92
Toluene	99
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	96
Tetrachloroethene	99

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1006375-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061806**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:13 AM**

Compound	%Recovery
2-Hexanone	89
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	98
Chlorobenzene	101
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	96
Styrene	94
Bromoform	97
Cumene	103
1,1,2,2-Tetrachloroethane	100
Propylbenzene	102
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	126

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1006375-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061807**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:47 AM**

Compound	%Recovery
Freon 12	89
Freon 114	88
Chloromethane	87
Vinyl Chloride	88
1,3-Butadiene	88
Bromomethane	91
Chloroethane	84
Freon 11	89
Ethanol	75
Freon 113	78
1,1-Dichloroethene	77
Acetone	83
2-Propanol	78
Carbon Disulfide	84
3-Chloropropene	81
Methylene Chloride	79
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	84
Hexane	82
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	83
Tetrahydrofuran	84
Chloroform	86
1,1,1-Trichloroethane	84
Cyclohexane	82
Carbon Tetrachloride	85
2,2,4-Trimethylpentane	84
Benzene	82
1,2-Dichloroethane	87
Heptane	83
Trichloroethene	73
1,2-Dichloropropane	86
1,4-Dioxane	85
Bromodichloromethane	84
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	78
Toluene	81
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	86
Tetrachloroethene	88

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1006375-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061807**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:47 AM**

Compound	%Recovery
2-Hexanone	80
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	91
Chlorobenzene	89
Ethyl Benzene	87
m,p-Xylene	86
o-Xylene	85
Styrene	84
Bromoform	86
Cumene	90
1,1,2,2-Tetrachloroethane	90
Propylbenzene	89
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	124

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Dennis Keane
Collected by: (Print and Sign) Jeff Hillman Jeff Hillman
Company XDD, LLC Email keane@xdd-llc.com
Address 22 Main Way Unit 3 City Strafham State NH Zip 03885
Phone (603) 778-1100 Fax (603) 778-2121

Project Info:
P.O. # _____
Project # 824411
Project Name Dover Landfill

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: ____
Date: ____
Pressurization Gas:
N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SVESTACK061510	—	06/15/10	1145	TO-15				

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Amy Bling	06/15/10 1600		
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Greggen AIR	6/16/10 925

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No None	1006375

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

7/1/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 1006461

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 6/18/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1006461

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	1849
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	06/18/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	07/01/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVESTACK061710	Modified TO-15 (5&20 ppbv	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 07/01/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1006461

One 1 Liter Tedlar Bag sample was received on June 18, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: SVESTACK061710

Lab ID#: 1006461-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	250	5200	640	13000
Freon 11	250	1100	1400	6100
Freon 113	250	260	1900	2000
Methylene Chloride	250	16000	870	54000
trans-1,2-Dichloroethene	250	270	990	1100
Hexane	250	300	880	1000
1,1-Dichloroethane	250	3400	1000	14000
2-Butanone (Methyl Ethyl Ketone)	250	1300	740	3900
cis-1,2-Dichloroethene	250	59000	990	240000
1,1,1-Trichloroethane	250	6600	1400	36000
Cyclohexane	250	330	860	1100
Heptane	250	980	1000	4000
Trichloroethene	250	9600	1300	52000
4-Methyl-2-pentanone	250	610	1000	2500
Toluene	250	58000	940	220000
Tetrachloroethene	250	150000	1700	1000000
Ethyl Benzene	250	5800	1100	25000
m,p-Xylene	250	26000	1100	110000
o-Xylene	250	10000	1100	44000
Cumene	250	480	1200	2400
Propylbenzene	250	680	1200	3300
4-Ethyltoluene	250	4800	1200	23000
1,3,5-Trimethylbenzene	250	2200	1200	11000
1,2,4-Trimethylbenzene	250	3400	1200	16000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK061710

Lab ID#: 1006461-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w061824	Date of Collection:	6/17/10 11:45:00 AM
Dil. Factor:	50.0	Date of Analysis:	6/18/10 10:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	250	5200	640	13000
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	970	Not Detected
Chloroethane	250	Not Detected	660	Not Detected
Freon 11	250	1100	1400	6100
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	250	260	1900	2000
1,1-Dichloroethene	250	Not Detected	990	Not Detected
Acetone	1000	Not Detected	2400	Not Detected
2-Propanol	1000	Not Detected	2400	Not Detected
Carbon Disulfide	250	Not Detected	780	Not Detected
3-Chloropropene	1000	Not Detected	3100	Not Detected
Methylene Chloride	250	16000	870	54000
Methyl tert-butyl ether	250	Not Detected	900	Not Detected
trans-1,2-Dichloroethene	250	270	990	1100
Hexane	250	300	880	1000
1,1-Dichloroethane	250	3400	1000	14000
2-Butanone (Methyl Ethyl Ketone)	250	1300	740	3900
cis-1,2-Dichloroethene	250	59000	990	240000
Tetrahydrofuran	250	Not Detected	740	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	6600	1400	36000
Cyclohexane	250	330	860	1100
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected
Benzene	250	Not Detected	800	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	980	1000	4000
Trichloroethene	250	9600	1300	52000
1,2-Dichloropropane	250	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	610	1000	2500
Toluene	250	58000	940	220000
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected
Tetrachloroethene	250	150000	1700	1000000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK061710

Lab ID#: 1006461-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061824**	**Date of Collection:**	**6/17/10 11:45:00 AM**
Dil. Factor:	**50.0**	**Date of Analysis:**	**6/18/10 10:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1000	Not Detected	4100	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1200	Not Detected
Ethyl Benzene	250	5800	1100	25000
m,p-Xylene	250	26000	1100	110000
o-Xylene	250	10000	1100	44000
Styrene	250	Not Detected	1100	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	480	1200	2400
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	680	1200	3300
4-Ethyltoluene	250	4800	1200	23000
1,3,5-Trimethylbenzene	250	2200	1200	11000
1,2,4-Trimethylbenzene	250	3400	1200	16000
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7400	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1006461-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061810**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1006461-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061810**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1006461-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061806**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:13 AM**

Compound	%Recovery
Freon 12	98
Freon 114	96
Chloromethane	97
Vinyl Chloride	93
1,3-Butadiene	87
Bromomethane	100
Chloroethane	96
Freon 11	98
Ethanol	90
Freon 113	99
1,1-Dichloroethene	97
Acetone	97
2-Propanol	88
Carbon Disulfide	96
3-Chloropropene	93
Methylene Chloride	96
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	97
Hexane	92
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	95
Tetrahydrofuran	97
Chloroform	98
1,1,1-Trichloroethane	97
Cyclohexane	93
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	96
Benzene	96
1,2-Dichloroethane	100
Heptane	95
Trichloroethene	82
1,2-Dichloropropane	98
1,4-Dioxane	97
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	92
Toluene	99
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	96
Tetrachloroethene	99

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1006461-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061806**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:13 AM**

Compound	%Recovery
2-Hexanone	89
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	98
Chlorobenzene	101
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	96
Styrene	94
Bromoform	97
Cumene	103
1,1,2,2-Tetrachloroethane	100
Propylbenzene	102
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	126

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1006461-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061807**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:47 AM**

Compound	%Recovery
Freon 12	89
Freon 114	88
Chloromethane	87
Vinyl Chloride	88
1,3-Butadiene	88
Bromomethane	91
Chloroethane	84
Freon 11	89
Ethanol	75
Freon 113	78
1,1-Dichloroethene	77
Acetone	83
2-Propanol	78
Carbon Disulfide	84
3-Chloropropene	81
Methylene Chloride	79
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	84
Hexane	82
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	83
Tetrahydrofuran	84
Chloroform	86
1,1,1-Trichloroethane	84
Cyclohexane	82
Carbon Tetrachloride	85
2,2,4-Trimethylpentane	84
Benzene	82
1,2-Dichloroethane	87
Heptane	83
Trichloroethene	73
1,2-Dichloropropane	86
1,4-Dioxane	85
Bromodichloromethane	84
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	78
Toluene	81
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	86
Tetrachloroethene	88

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1006461-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w061807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/18/10 11:47 AM**	

Compound	%Recovery
2-Hexanone	80
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	91
Chlorobenzene	89
Ethyl Benzene	87
m,p-Xylene	86
o-Xylene	85
Styrene	84
Bromoform	86
Cumene	90
1,1,2,2-Tetrachloroethane	90
Propylbenzene	89
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	124

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Dennis Keane
Collected by: (Print and Sign) Matthew White
Company: XDD, LLC Email: keane@xdd-llc.com
Address: 22 Marin Way Unit #3 City: Stratham State: NH Zip: 03885
Phone: 603-778-1100 Fax: 603-778-2121

Project Info:
P.O. #: 1849
Project #: 84411
Project Name: Dover Landfill

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SVE STACK 061710	—	06/17/10	11:45	TO-15				

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	6/17/10 1000		
		[signature] Brian Whittaker / ATL	6/18/10 900

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FEDEX	7936 4672 9286	N/A	GOOD	Yes No None	1006461

Form 1293 rev.11

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: XDD LLC

Company Address:

Report To:

Phone #:

Invoice To:

Project Name:

Project #:

Project Location: NH MA ME VT ____ Other

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Reporting Limits: QAPP GW-1 S-1 EPA DW Other ____

Quote # ____

PO # ____

ANALYSIS REQUEST

☐ VOC 8260 ☑ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
☐ VOC 524.2 ☐ VOC 524.2 NH List
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals
☐ Total Metals-list
☐ Dissolved Metals-list
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ TOC ☐ Grain Size ☐ TCLP Herbicides
Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*

TAT REQUESTED
Priority (24 hr)** ☐
Expedited (48 hr)** ☐
Standard (10 Business Days) ☒
**Date Needed ____

* See www.reslabs.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☐ NO HARD COPY REQUIRED ☐ FAX (FAX#) ____ ☐ EXCEL SPREADSHEET
☑ PDF (e-mail address) ____ ☐ OTHER (specify) ____

RECEIVED ON ICE ☐ YES ☐ NO
TEMPERATURE ____ °C

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
	6/22	1050			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory: Way Bill#:	Date	Time
				6/22/17	1050

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Dennis Keane
Xpert Design & Diagnostics, LLC
22 Marin Way
Unit 3
Stratham, NH 03885

PO Number: 1896
Job ID: 19635
Date Received: 7/22/10

Project: Dover Landfill 84411

Attached please find results for the analysis of the samples received on the date referenced above.

Samples were received unpreserved.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 8/3/2010
Total number of pages: 10

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-001
Sample ID: INF
Matrix: Water
Sampled: 7/22/10 11:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
vinyl chloride	**15**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
methylene chloride	**630**	25	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
trans-1,2-dichloroethene	**12**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,1-dichloroethane	**62**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
t-butanol (TBA)	**280**	150	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
2-butanone (MEK)	**110**	50	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
cis-1,2-dichloroethene	**1500**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
tetrahydrofuran (THF)	**81**	50	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,1,1-trichloroethane	**55**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
trichloroethene	**210**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,4-dioxane	**330**	250	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**460**	50	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
toluene	**940**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
2-hexanone	< 50	50	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
tetrachloroethene	**1200**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-001
Sample ID: INF
Matrix: Water
Sampled: 7/22/10 11:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
ethylbenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
m&p-xylenes	**88**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
o-xylene	**350**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,3,5-trimethylbenzene	**79**	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2,4-trimethylbenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
toluene-D8 SUR	105	88-110	%	5	LMM		1001627	7/26/10	18:33	SW5030B8260B
4-bromofluorobenzene SUR	100	86-115	%	5	LMM		1001627	7/26/10	18:33	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-002
Sample ID: DUP
Matrix: Water
Sampled: 7/22/10 11:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
vinyl chloride	**12**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
acetone	**110**	50	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
methylene chloride	**490**	5	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
trans-1,2-dichloroethene	**10**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,1-dichloroethane	**49**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
t-butanol (TBA)	**210**	30	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
2-butanone (MEK)	**110**	10	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
cis-1,2-dichloroethene	**1400**	10	ug/L	5	LMM		1001662	7/27/10	12:52	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
tetrahydrofuran (THF)	**62**	10	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,1,1-trichloroethane	**45**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
trichloroethene	**170**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,4-dioxane	**270**	50	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**390**	10	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
toluene	**840**	10	ug/L	5	LMM		1001662	7/27/10	12:52	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
2-hexanone	**22**	10	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,1,2-trichloroethane	**3**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
tetrachloroethene	**1100**	10	ug/L	5	LMM		1001662	7/27/10	12:52	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-002
Sample ID: DUP
Matrix: Water
Sampled: 7/22/10 11:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
ethylbenzene	**7**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
m&p-xylenes	**120**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
o-xylene	**270**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,3,5-trimethylbenzene	**59**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2,4-trimethylbenzene	**7**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,4-dichlorobenzene	**2**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2-dichlorobenzene	**7**	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
naphthalene	**12**	5	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	102	78-114	%	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
toluene-D8 SUR	106	88-110	%	1	LMM		1001662	7/26/10	13:09	SW5030B8260B
4-bromofluorobenzene SUR	96	86-115	%	1	LMM		1001662	7/26/10	13:09	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-003
Sample ID: EFF
Matrix: Water
Sampled: 7/22/10 11:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-003
Sample ID: EFF
Matrix: Water
Sampled: 7/22/10 11:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
toluene-D8 SUR	100	88-110	%	1	LMM		1001627	7/26/10	12:38	SW5030B8260B
4-bromofluorobenzene SUR	98	86-115	%	1	LMM		1001627	7/26/10	12:38	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 7/22/10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 19635
Sample#: 19635-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 7/22/10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	101	78-114	%	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
toluene-D8 SUR	103	88-110	%	1	LMM		1001627	7/26/10	12:06	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	1	LMM		1001627	7/26/10	12:06	SW5030B8260B

Air Toxics LTD.
Laboratory Services Since 1989

8/10/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #:
Workorder #: 1007568

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 7/26/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1007568

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	1886
FAX:	603-778-2121	**PROJECT #**	Dover Landfill
DATE RECEIVED:	07/26/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	08/10/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Tolend Road	Modified TO-15	4.0 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda J. Freeman

DATE: 08/10/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1007568

One 6 Liter Summa Canister sample was received on July 26, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Tolend Road

Lab ID#: 1007568-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	3.1	11	7.4	25
Carbon Disulfide	0.78	2.0	2.4	6.3
Tetrahydrofuran	0.78	24	2.3	70

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road

Lab ID#: 1007568-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080509	Date of Collection:	7/22/10 2:45:00 PM
Dil. Factor:	1.55	Date of Analysis:	8/5/10 02:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.8	Not Detected
Freon 114	0.78	Not Detected	5.4	Not Detected
Chloromethane	3.1	Not Detected	6.4	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.0	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	3.1	Not Detected	5.8	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	3.1	11	7.4	25
2-Propanol	3.1	Not Detected	7.6	Not Detected
Carbon Disulfide	0.78	2.0	2.4	6.3
3-Chloropropene	3.1	Not Detected	9.7	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	Not Detected	2.3	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	24	2.3	70
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.1	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
Toluene	0.78	Not Detected	2.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road

Lab ID#: 1007568-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2080509**	**Date of Collection:**	**7/22/10 2:45:00 PM**
Dil. Factor:	**1.55**	**Date of Analysis:**	**8/5/10 02:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	Not Detected	3.4	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected
Bromoform	0.78	Not Detected	8.0	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.3	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1007568-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080505	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 8/5/10 11:32 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1007568-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2080505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/5/10 11:32 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1007568-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2080502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/5/10 09:21 AM**

Compound	%Recovery
Freon 12	109
Freon 114	106
Chloromethane	126
Vinyl Chloride	115
1,3-Butadiene	112
Bromomethane	100
Chloroethane	109
Freon 11	102
Ethanol	110
Freon 113	99
1,1-Dichloroethene	107
Acetone	108
2-Propanol	103
Carbon Disulfide	110
3-Chloropropene	107
Methylene Chloride	106
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	103
Hexane	125
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	108
Tetrahydrofuran	120
Chloroform	104
1,1,1-Trichloroethane	93
Cyclohexane	116
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	128
Benzene	105
1,2-Dichloroethane	100
Heptane	123
Trichloroethene	101
1,2-Dichloropropane	101
1,4-Dioxane	105
Bromodichloromethane	98
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	113
Toluene	102
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	111
Tetrachloroethene	107

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1007568-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2080502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/5/10 09:21 AM**

Compound	%Recovery
2-Hexanone	129
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	111
Chlorobenzene	107
Ethyl Benzene	127
m,p-Xylene	130
o-Xylene	128
Styrene	124
Bromoform	105
Cumene	108
1,1,2,2-Tetrachloroethane	111
Propylbenzene	120
4-Ethyltoluene	122
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	120
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1007568-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2080503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/5/10 09:58 AM**

Compound	%Recovery
Freon 12	114
Freon 114	113
Chloromethane	133 Q
Vinyl Chloride	121
1,3-Butadiene	124
Bromomethane	106
Chloroethane	114
Freon 11	105
Ethanol	110
Freon 113	93
1,1-Dichloroethene	101
Acetone	119
2-Propanol	102
Carbon Disulfide	113
3-Chloropropene	109
Methylene Chloride	102
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	108
Hexane	130
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	116
cis-1,2-Dichloroethene	111
Tetrahydrofuran	125
Chloroform	105
1,1,1-Trichloroethane	97
Cyclohexane	125
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	141 Q
Benzene	102
1,2-Dichloroethane	94
Heptane	122
Trichloroethene	97
1,2-Dichloropropane	100
1,4-Dioxane	100
Bromodichloromethane	94
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	105
Toluene	95
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	109
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1007568-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2080503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/5/10 09:58 AM**

Compound	%Recovery
2-Hexanone	112
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	112
Chlorobenzene	105
Ethyl Benzene	125
m,p-Xylene	127
o-Xylene	124
Styrene	112
Bromoform	102
Cumene	104
1,1,2,2-Tetrachloroethane	110
Propylbenzene	116
4-Ethyltoluene	117
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	117
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	89

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

8/11/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #:
Workorder #: 1007499

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 7/23/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1007499

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	1897
FAX:	603-778-2121	**PROJECT #**	Dover Landfill
DATE RECEIVED:	07/23/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	08/11/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE STACK 072210	Modified TO-15 (5&20 ppbv	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 08/11/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1007499

One 1 Liter Tedlar Bag sample was received on July 23, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Method TO-15 is validated for samples collected in specially treated canisters. As such, the use of Tedlar bags for sample collection is outside the scope of the method and not recommended for ambient or indoor air samples. It is the responsibility of the data user to determine the usability of TO-15 results generated from Tedlar bags.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: SVE STACK 072210

Lab ID#: 1007499-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	280	5100	710	13000
Freon 11	280	1200	1600	6700
Freon 113	280	320	2100	2500
Methylene Chloride	280	14000	960	48000
Hexane	280	430	980	1500
1,1-Dichloroethane	280	3200	1100	13000
cis-1,2-Dichloroethene	280	54000	1100	210000
1,1,1-Trichloroethane	280	6100	1500	33000
Cyclohexane	280	500	960	1700
Heptane	280	1100	1100	4300
Trichloroethene	280	12000	1500	67000
4-Methyl-2-pentanone	280	650	1100	2600
Toluene	280	68000	1000	260000
Tetrachloroethene	280	160000	1900	1100000
Ethyl Benzene	280	8300	1200	36000
m,p-Xylene	280	34000	1200	140000
o-Xylene	280	13000	1200	58000
Cumene	280	750	1400	3700
Propylbenzene	280	1300	1400	6300
4-Ethyltoluene	280	8000	1400	39000
1,3,5-Trimethylbenzene	280	3800	1400	19000
1,2,4-Trimethylbenzene	280	6300	1400	31000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 072210

Lab ID#: 1007499-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b072410	Date of Collection:	7/22/10 10:45:00 AM
Dil. Factor:	55.6	Date of Analysis:	7/24/10 08:03 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	280	Not Detected	1400	Not Detected
Freon 114	280	Not Detected	1900	Not Detected
Chloromethane	1100	Not Detected	2300	Not Detected
Vinyl Chloride	280	5100	710	13000
1,3-Butadiene	280	Not Detected	620	Not Detected
Bromomethane	280	Not Detected	1100	Not Detected
Chloroethane	280	Not Detected	730	Not Detected
Freon 11	280	1200	1600	6700
Ethanol	1100	Not Detected	2100	Not Detected
Freon 113	280	320	2100	2500
1,1-Dichloroethene	280	Not Detected	1100	Not Detected
Acetone	1100	Not Detected	2600	Not Detected
2-Propanol	1100	Not Detected	2700	Not Detected
Carbon Disulfide	280	Not Detected	860	Not Detected
3-Chloropropene	1100	Not Detected	3500	Not Detected
Methylene Chloride	280	14000	960	48000
Methyl tert-butyl ether	280	Not Detected	1000	Not Detected
trans-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Hexane	280	430	980	1500
1,1-Dichloroethane	280	3200	1100	13000
2-Butanone (Methyl Ethyl Ketone)	280	Not Detected	820	Not Detected
cis-1,2-Dichloroethene	280	54000	1100	210000
Tetrahydrofuran	280	Not Detected	820	Not Detected
Chloroform	280	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	280	6100	1500	33000
Cyclohexane	280	500	960	1700
Carbon Tetrachloride	280	Not Detected	1700	Not Detected
2,2,4-Trimethylpentane	280	Not Detected	1300	Not Detected
Benzene	280	Not Detected	890	Not Detected
1,2-Dichloroethane	280	Not Detected	1100	Not Detected
Heptane	280	1100	1100	4300
Trichloroethene	280	12000	1500	67000
1,2-Dichloropropane	280	Not Detected	1300	Not Detected
1,4-Dioxane	1100	Not Detected	4000	Not Detected
Bromodichloromethane	280	Not Detected	1900	Not Detected
cis-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	280	650	1100	2600
Toluene	280	68000	1000	260000
trans-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
1,1,2-Trichloroethane	280	Not Detected	1500	Not Detected
Tetrachloroethene	280	160000	1900	1100000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 072210

Lab ID#: 1007499-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b072410**	**Date of Collection:**	**7/22/10 10:45:00 AM**
Dil. Factor:	**55.6**	**Date of Analysis:**	**7/24/10 08:03 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1100	Not Detected	4600	Not Detected
Dibromochloromethane	280	Not Detected	2400	Not Detected
1,2-Dibromoethane (EDB)	280	Not Detected	2100	Not Detected
Chlorobenzene	280	Not Detected	1300	Not Detected
Ethyl Benzene	280	8300	1200	36000
m,p-Xylene	280	34000	1200	140000
o-Xylene	280	13000	1200	58000
Styrene	280	Not Detected	1200	Not Detected
Bromoform	280	Not Detected	2900	Not Detected
Cumene	280	750	1400	3700
1,1,2,2-Tetrachloroethane	280	Not Detected	1900	Not Detected
Propylbenzene	280	1300	1400	6300
4-Ethyltoluene	280	8000	1400	39000
1,3,5-Trimethylbenzene	280	3800	1400	19000
1,2,4-Trimethylbenzene	280	6300	1400	31000
1,3-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,4-Dichlorobenzene	280	Not Detected	1700	Not Detected
alpha-Chlorotoluene	280	Not Detected	1400	Not Detected
1,2-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,2,4-Trichlorobenzene	1100	Not Detected UJ	8200	Not Detected UJ
Hexachlorobutadiene	1100	Not Detected	12000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1007499-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b072407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/24/10 05:22 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1007499-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b072407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/24/10 05:22 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected UJ	150	Not Detected UJ
Hexachlorobutadiene	20	Not Detected	210	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	88	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1007499-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b072402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/24/10 02:37 AM**

Compound	%Recovery
Freon 12	106
Freon 114	104
Chloromethane	122
Vinyl Chloride	125
1,3-Butadiene	114
Bromomethane	119
Chloroethane	119
Freon 11	116
Ethanol	121
Freon 113	108
1,1-Dichloroethene	123
Acetone	115
2-Propanol	100
Carbon Disulfide	125
3-Chloropropene	102
Methylene Chloride	113
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	117
Hexane	116
1,1-Dichloroethane	123
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	124
Tetrahydrofuran	112
Chloroform	126
1,1,1-Trichloroethane	114
Cyclohexane	119
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	120
Benzene	125
1,2-Dichloroethane	132 Q
Heptane	118
Trichloroethene	122
1,2-Dichloropropane	124
1,4-Dioxane	114
Bromodichloromethane	122
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	97
Toluene	124
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	119
Tetrachloroethene	109

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1007499-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b072402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/24/10 02:37 AM**

Compound	%Recovery
2-Hexanone	99
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	114
Chlorobenzene	119
Ethyl Benzene	113
m,p-Xylene	112
o-Xylene	109
Styrene	113
Bromoform	105
Cumene	115
1,1,2,2-Tetrachloroethane	126
Propylbenzene	115
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	67 Q
Hexachlorobutadiene	70

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1007499-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b072405**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/24/10 04:10 AM**

Compound	%Recovery
Freon 12	109
Freon 114	97
Chloromethane	111
Vinyl Chloride	116
1,3-Butadiene	110
Bromomethane	115
Chloroethane	115
Freon 11	109
Ethanol	99
Freon 113	90
1,1-Dichloroethene	103
Acetone	104
2-Propanol	93
Carbon Disulfide	115
3-Chloropropene	99
Methylene Chloride	97
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	110
Hexane	112
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	117
Tetrahydrofuran	108
Chloroform	117
1,1,1-Trichloroethane	106
Cyclohexane	111
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	115
Benzene	118
1,2-Dichloroethane	123
Heptane	114
Trichloroethene	115
1,2-Dichloropropane	117
1,4-Dioxane	109
Bromodichloromethane	116
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	96
Toluene	112
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	110
Tetrachloroethene	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1007499-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b072405**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/24/10 04:10 AM**

Compound	%Recovery
2-Hexanone	102
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	112
Chlorobenzene	113
Ethyl Benzene	112
m,p-Xylene	111
o-Xylene	110
Styrene	116
Bromoform	104
Cumene	112
1,1,2,2-Tetrachloroethane	125
Propylbenzene	113
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	118
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

9/2/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 1008634

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 8/27/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1008634

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	1944
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	08/27/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/02/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	082610-SVE STACK	Modified TO-15 (5&20 ppbv	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda J. Freeman

DATE: 09/02/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1008634

One 1 Liter Tedlar Bag sample was received on August 27, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: 082610-SVE STACK

Lab ID#: 1008634-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	250	4800	640	12000
Freon 11	250	1500	1400	8300
Freon 113	250	460	1900	3500
Acetone	1000	1200	2400	2900
Methylene Chloride	250	18000	870	63000
trans-1,2-Dichloroethene	250	290	990	1100
Hexane	250	500	880	1800
1,1-Dichloroethane	250	4000	1000	16000
cis-1,2-Dichloroethene	250	51000	990	200000
1,1,1-Trichloroethane	250	8400	1400	46000
Cyclohexane	250	470	860	1600
Heptane	250	1600	1000	6500
Trichloroethene	250	15000	1300	81000
4-Methyl-2-pentanone	250	1300	1000	5400
Toluene	250	91000	940	340000
Tetrachloroethene	250	210000	1700	1400000
Ethyl Benzene	250	12000	1100	53000
m,p-Xylene	250	42000	1100	180000
o-Xylene	250	17000	1100	73000
Cumene	250	1200	1200	5800
Propylbenzene	250	1800	1200	8700
4-Ethyltoluene	250	10000	1200	50000
1,3,5-Trimethylbenzene	250	4700	1200	23000
1,2,4-Trimethylbenzene	250	7800	1200	38000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 082610-SVE STACK

Lab ID#: 1008634-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w082815	Date of Collection:	8/26/10 10:11:00 AM
Dil. Factor:	50.0	Date of Analysis:	8/28/10 03:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	250	4800	640	12000
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	970	Not Detected
Chloroethane	250	Not Detected	660	Not Detected
Freon 11	250	1500	1400	8300
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	250	460	1900	3500
1,1-Dichloroethene	250	Not Detected	990	Not Detected
Acetone	1000	1200	2400	2900
2-Propanol	1000	Not Detected	2400	Not Detected
Carbon Disulfide	250	Not Detected	780	Not Detected
3-Chloropropene	1000	Not Detected	3100	Not Detected
Methylene Chloride	250	18000	870	63000
Methyl tert-butyl ether	250	Not Detected	900	Not Detected
trans-1,2-Dichloroethene	250	290	990	1100
Hexane	250	500	880	1800
1,1-Dichloroethane	250	4000	1000	16000
2-Butanone (Methyl Ethyl Ketone)	250	Not Detected	740	Not Detected
cis-1,2-Dichloroethene	250	51000	990	200000
Tetrahydrofuran	250	Not Detected	740	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	8400	1400	46000
Cyclohexane	250	470	860	1600
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected
Benzene	250	Not Detected	800	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	1600	1000	6500
Trichloroethene	250	15000	1300	81000
1,2-Dichloropropane	250	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	1300	1000	5400
Toluene	250	91000	940	340000
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected
Tetrachloroethene	250	210000	1700	1400000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 082610-SVE STACK

Lab ID#: 1008634-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w082815**	**Date of Collection:**	**8/26/10 10:11:00 AM**
Dil. Factor:	**50.0**	**Date of Analysis:**	**8/28/10 03:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1000	Not Detected	4100	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1200	Not Detected
Ethyl Benzene	250	12000	1100	53000
m,p-Xylene	250	42000	1100	180000
o-Xylene	250	17000	1100	73000
Styrene	250	Not Detected	1100	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	1200	1200	5800
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	1800	1200	8700
4-Ethyltoluene	250	10000	1200	50000
1,3,5-Trimethylbenzene	250	4700	1200	23000
1,2,4-Trimethylbenzene	250	7800	1200	38000
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7400	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	81	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1008634-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w082806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/28/10 10:23 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1008634-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w082806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/28/10 10:23 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1008634-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w082802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/28/10 08:05 AM**

Compound	%Recovery
Freon 12	86
Freon 114	97
Chloromethane	96
Vinyl Chloride	99
1,3-Butadiene	98
Bromomethane	96
Chloroethane	100
Freon 11	89
Ethanol	105
Freon 113	100
1,1-Dichloroethene	93
Acetone	102
2-Propanol	96
Carbon Disulfide	99
3-Chloropropene	96
Methylene Chloride	95
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	101
Hexane	100
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	92
Tetrahydrofuran	102
Chloroform	109
1,1,1-Trichloroethane	107
Cyclohexane	111
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	107
Benzene	115
1,2-Dichloroethane	101
Heptane	114
Trichloroethene	108
1,2-Dichloropropane	110
1,4-Dioxane	111
Bromodichloromethane	108
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	115
Toluene	113
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	117
Tetrachloroethene	117

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1008634-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w082802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/28/10 08:05 AM**

Compound	%Recovery
2-Hexanone	111
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	115
Chlorobenzene	115
Ethyl Benzene	114
m,p-Xylene	116
o-Xylene	115
Styrene	126
Bromoform	121
Cumene	122
1,1,2,2-Tetrachloroethane	116
Propylbenzene	118
4-Ethyltoluene	125
1,3,5-Trimethylbenzene	120
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	116
alpha-Chlorotoluene	135 Q
1,2-Dichlorobenzene	113
1,2,4-Trichlorobenzene	73
Hexachlorobutadiene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1008634-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w082803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/28/10 08:44 AM**

Compound	%Recovery
Freon 12	100
Freon 114	113
Chloromethane	110
Vinyl Chloride	112
1,3-Butadiene	115
Bromomethane	104
Chloroethane	114
Freon 11	104
Ethanol	107
Freon 113	104
1,1-Dichloroethene	95
Acetone	109
2-Propanol	103
Carbon Disulfide	112
3-Chloropropene	108
Methylene Chloride	99
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	114
Hexane	114
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	101
Tetrahydrofuran	106
Chloroform	101
1,1,1-Trichloroethane	100
Cyclohexane	106
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	114
Benzene	105
1,2-Dichloroethane	98
Heptane	115
Trichloroethene	108
1,2-Dichloropropane	111
1,4-Dioxane	107
Bromodichloromethane	106
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	110
Toluene	106
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	117
Tetrachloroethene	117

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1008634-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w082803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/28/10 08:44 AM**

Compound	%Recovery
2-Hexanone	109
Dibromochloromethane	117
1,2-Dibromoethane (EDB)	120
Chlorobenzene	115
Ethyl Benzene	116
m,p-Xylene	118
o-Xylene	116
Styrene	126
Bromoform	119
Cumene	118
1,1,2,2-Tetrachloroethane	117
Propylbenzene	118
4-Ethyltoluene	126
1,3,5-Trimethylbenzene	121
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	118
alpha-Chlorotoluene	135 Q
1,2-Dichlorobenzene	117
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	104

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Dennis Keane
Collected by: (Print and Sign) Amy Gibney Amy Gibney
Company XDD Email keane@xddllc.com
Address 22 Marin Way City Stratham State NH Zip 03885
Phone (603) 778-1100 Fax (603) 778-2121

Project Info:
P.O. # 1944
Project # 84411
Project Name Dover landfill

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: ____
Date: ____
Pressurization Gas:
N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	082610-SVE STACK		8/26/10	10:11	TO-15	–	–		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Amy C. Gibney 08/26/10 1615	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
	Brian Whittaker ACL 8/27/10 900

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FEDEX		N/A	Good	Yes No (None)	1008634

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

10/19/2010
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover
Project #:
Workorder #: 1010156

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 10/8/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1010156

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	1975
FAX:	603-778-2121	**PROJECT #**	Dover
DATE RECEIVED:	10/08/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	10/15/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE100710	Modified TO-15 (5&20 ppbv	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv	NA	NA
04AA	LCSD	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda J. Freeman DATE: 10/19/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1010156

One 1 Liter Tedlar Bag sample was received on October 08, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample(s) SVE100710 due to the presence of high level target species.

Method TO-15 is validated for samples collected in specially treated canisters. As such, the use of Tedlar bags for sample collection is outside the scope of the method and not recommended for ambient or indoor air samples. It is the responsibility of the data user to determine the usability of TO-15 results generated from Tedlar bags.

Sample SVE100710 was analyzed past a 3 day hold time. The client was notified and permission given to proceed with analysis and reporting.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: SVE100710

Lab ID#: 1010156-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	210	6200	530	16000
Chloroethane	210	220	550	580
Freon 11	210	1900	1200	11000
Freon 113	210	530	1600	4000
Methylene Chloride	210	24000	720	85000
trans-1,2-Dichloroethene	210	360	830	1400
Hexane	210	870	730	3000
1,1-Dichloroethane	210	4900	840	20000
cis-1,2-Dichloroethene	210	61000	830	240000
1,1,1-Trichloroethane	210	8500	1100	46000
Cyclohexane	210	730	720	2500
Heptane	210	1800	850	7600
Trichloroethene	210	14000	1100	77000
4-Methyl-2-pentanone	210	910	850	3700
Toluene	210	82000	780	310000
Tetrachloroethene	210	160000	1400	1100000
Ethyl Benzene	210	9600	900	42000
m,p-Xylene	210	32000	900	140000
o-Xylene	210	13000	900	56000
Cumene	210	850	1000	4200
Propylbenzene	210	1400	1000	7200
4-Ethyltoluene	210	8100	1000	40000
1,3,5-Trimethylbenzene	210	4100	1000	20000
1,2,4-Trimethylbenzene	210	7000	1000	35000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE100710

Lab ID#: 1010156-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b101108	Date of Collection:	10/7/10 10:15:00 AM
Dil. Factor:	41.7	Date of Analysis:	10/11/10 12:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	210	Not Detected	1000	Not Detected
Freon 114	210	Not Detected	1400	Not Detected
Chloromethane	830	Not Detected	1700	Not Detected
Vinyl Chloride	210	6200	530	16000
1,3-Butadiene	210	Not Detected	460	Not Detected
Bromomethane	210	Not Detected	810	Not Detected
Chloroethane	210	220	550	580
Freon 11	210	1900	1200	11000
Ethanol	830	Not Detected	1600	Not Detected
Freon 113	210	530	1600	4000
1,1-Dichloroethene	210	Not Detected	830	Not Detected
Acetone	830	Not Detected	2000	Not Detected
2-Propanol	830	Not Detected	2000	Not Detected
Carbon Disulfide	210	Not Detected	650	Not Detected
3-Chloropropene	830	Not Detected	2600	Not Detected
Methylene Chloride	210	24000	720	85000
Methyl tert-butyl ether	210	Not Detected	750	Not Detected
trans-1,2-Dichloroethene	210	360	830	1400
Hexane	210	870	730	3000
1,1-Dichloroethane	210	4900	840	20000
2-Butanone (Methyl Ethyl Ketone)	210	Not Detected	610	Not Detected
cis-1,2-Dichloroethene	210	61000	830	240000
Tetrahydrofuran	210	Not Detected	610	Not Detected
Chloroform	210	Not Detected	1000	Not Detected
1,1,1-Trichloroethane	210	8500	1100	46000
Cyclohexane	210	730	720	2500
Carbon Tetrachloride	210	Not Detected	1300	Not Detected
2,2,4-Trimethylpentane	210	Not Detected	970	Not Detected
Benzene	210	Not Detected	670	Not Detected
1,2-Dichloroethane	210	Not Detected	840	Not Detected
Heptane	210	1800	850	7600
Trichloroethene	210	14000	1100	77000
1,2-Dichloropropane	210	Not Detected	960	Not Detected
1,4-Dioxane	830	Not Detected	3000	Not Detected
Bromodichloromethane	210	Not Detected	1400	Not Detected
cis-1,3-Dichloropropene	210	Not Detected	950	Not Detected
4-Methyl-2-pentanone	210	910	850	3700
Toluene	210	82000	780	310000
trans-1,3-Dichloropropene	210	Not Detected	950	Not Detected
1,1,2-Trichloroethane	210	Not Detected	1100	Not Detected
Tetrachloroethene	210	160000	1400	1100000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE100710

Lab ID#: 1010156-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101108**	**Date of Collection:**	**10/7/10 10:15:00 AM**
Dil. Factor:	**41.7**	**Date of Analysis:**	**10/11/10 12:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	830	Not Detected	3400	Not Detected
Dibromochloromethane	210	Not Detected	1800	Not Detected
1,2-Dibromoethane (EDB)	210	Not Detected	1600	Not Detected
Chlorobenzene	210	Not Detected	960	Not Detected
Ethyl Benzene	210	9600	900	42000
m,p-Xylene	210	32000	900	140000
o-Xylene	210	13000	900	56000
Styrene	210	Not Detected	890	Not Detected
Bromoform	210	Not Detected	2200	Not Detected
Cumene	210	850	1000	4200
1,1,2,2-Tetrachloroethane	210	Not Detected	1400	Not Detected
Propylbenzene	210	1400	1000	7200
4-Ethyltoluene	210	8100	1000	40000
1,3,5-Trimethylbenzene	210	4100	1000	20000
1,2,4-Trimethylbenzene	210	7000	1000	35000
1,3-Dichlorobenzene	210	Not Detected	1200	Not Detected
1,4-Dichlorobenzene	210	Not Detected	1200	Not Detected
alpha-Chlorotoluene	210	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	210	Not Detected	1200	Not Detected
1,2,4-Trichlorobenzene	830	Not Detected	6200	Not Detected
Hexachlorobutadiene	830	Not Detected	8900	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1010156-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 10:42 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1010156-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 10:42 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1010156-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 08:44 AM**

Compound	%Recovery
Freon 12	94
Freon 114	98
Chloromethane	109
Vinyl Chloride	107
1,3-Butadiene	104
Bromomethane	103
Chloroethane	109
Freon 11	98
Ethanol	107
Freon 113	94
1,1-Dichloroethene	101
Acetone	111
2-Propanol	92
Carbon Disulfide	111
3-Chloropropene	101
Methylene Chloride	111
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	102
Hexane	102
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	102
Tetrahydrofuran	103
Chloroform	100
1,1,1-Trichloroethane	96
Cyclohexane	98
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	101
Benzene	103
1,2-Dichloroethane	102
Heptane	98
Trichloroethene	98
1,2-Dichloropropane	102
1,4-Dioxane	92
Bromodichloromethane	98
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	86
Toluene	99
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	96
Tetrachloroethene	91

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1010156-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 08:44 AM**	

Compound	%Recovery
2-Hexanone	83
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	95
Chlorobenzene	96
Ethyl Benzene	91
m,p-Xylene	90
o-Xylene	89
Styrene	81
Bromoform	89
Cumene	94
1,1,2,2-Tetrachloroethane	98
Propylbenzene	94
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1010156-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101104**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 09:31 AM**

Compound	%Recovery
Freon 12	106
Freon 114	107
Chloromethane	124
Vinyl Chloride	119
1,3-Butadiene	118
Bromomethane	114
Chloroethane	119
Freon 11	107
Ethanol	108
Freon 113	93
1,1-Dichloroethene	101
Acetone	110
2-Propanol	103
Carbon Disulfide	117
3-Chloropropene	110
Methylene Chloride	112
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	111
Hexane	115
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	112
Tetrahydrofuran	119
Chloroform	110
1,1,1-Trichloroethane	106
Cyclohexane	110
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	115
Benzene	113
1,2-Dichloroethane	111
Heptane	110
Trichloroethene	107
1,2-Dichloropropane	113
1,4-Dioxane	108
Bromodichloromethane	107
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	108
Toluene	104
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	108
Tetrachloroethene	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1010156-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 09:31 AM**	

Compound	**%Recovery**
2-Hexanone	112
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	112
Chlorobenzene	107
Ethyl Benzene	107
m,p-Xylene	106
o-Xylene	104
Styrene	111
Bromoform	102
Cumene	106
1,1,2,2-Tetrachloroethane	114
Propylbenzene	107
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	120
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	105

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1010156-04AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101105**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 10:03 AM**

Compound	%Recovery
Freon 12	106
Freon 114	111
Chloromethane	125
Vinyl Chloride	120
1,3-Butadiene	123
Bromomethane	117
Chloroethane	119
Freon 11	109
Ethanol	109
Freon 113	95
1,1-Dichloroethene	104
Acetone	114
2-Propanol	106
Carbon Disulfide	120
3-Chloropropene	114
Methylene Chloride	113
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	114
Hexane	117
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	115
Tetrahydrofuran	119
Chloroform	110
1,1,1-Trichloroethane	108
Cyclohexane	112
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	118
Benzene	117
1,2-Dichloroethane	113
Heptane	114
Trichloroethene	111
1,2-Dichloropropane	118
1,4-Dioxane	114
Bromodichloromethane	111
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	113
Toluene	107
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	110
Tetrachloroethene	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1010156-04AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b101105**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/11/10 10:03 AM**

Compound	%Recovery
2-Hexanone	116
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	113
Chlorobenzene	109
Ethyl Benzene	109
m,p-Xylene	108
o-Xylene	107
Styrene	113
Bromoform	105
Cumene	109
1,1,2,2-Tetrachloroethane	117
Propylbenzene	111
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	124
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	117

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Dennis Keane
Collected by: (Print and Sign) Jeff Hillman / Matthew White
Company: XDD-LLC Email: Keane@xdd-llc.com
Address: 22 Marin Way City: Stratham State: NH Zip: ~~03077~~ 03885
Phone: (603) 778-1100 Fax: (603) 778-2121

Project Info:
P.O. #: 1975
Project #: ~~DO~~
Project Name: DOVER

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SVE 100710		10/07/10	~~1000~~ 1015	TO-15				

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	10/7/10 16:00	Fedex	16:00 10/7/10
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		[signature] AIR	10/8/10 6:55
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	7963 2064 6806	NA	Good	Yes No None	1010156

Form 1293 rev.11

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Dennis Keane
Xpert Design & Diagnostics, LLC
22 Marin Way
Unit 3
Stratham, NH 03885

PO Number: 1977
Job ID: 20149
Date Received: 10/8/10

Project: Dover

Attached please find results for the analysis of the samples received on the date referenced above.

The following report has been re-issued with the full list of VOC compounds, as requested by the customer.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 10/25/2010
Total number of pages: 8

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover
Job ID: 20149
Sample#: 20149-001
Sample ID: DUP
Matrix: Water
Sampled: 10/7/10 10:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
vinyl chloride	**14**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
methylene chloride	**430**	25	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,1-dichloroethane	**41**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
t-butanol (TBA)	< 150	150	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
2-butanone (MEK)	**470**	50	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
cis-1,2-dichloroethene	**900**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
tetrahydrofuran (THF)	< 50	50	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,1,1-trichloroethane	**51**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
trichloroethene	**160**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,4-dioxane	< 250	250	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**650**	50	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
toluene	**1000**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
2-hexanone	**100**	50	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
tetrachloroethene	**1300**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B

Project ID: Dover
Job ID: 20149
Sample#: 20149-001
Sample ID: DUP
Matrix: Water
Sampled: 10/7/10 10:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
ethylbenzene	**96**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
m&p-xylenes	**450**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
o-xylene	**280**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,3,5-trimethylbenzene	**41**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2,4-trimethylbenzene	**130**	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**94**	78-114	%	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
toluene-D8 SUR	**98**	88-110	%	5	LMM		1002375	10/20/10	10:10	SW5030B8260B
4-bromofluorobenzene SUR	**98**	86-115	%	5	LMM		1002375	10/20/10	10:10	SW5030B8260B

Project ID: Dover
Job ID: 20149
Sample#: 20149-002
Sample ID: influent
Matrix: Water
Sampled: 10/7/10 10:25

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
vinyl chloride	**18**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
methylene chloride	**520**	25	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,1-dichloroethane	**61**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
t-butanol (TBA)	< 150	150	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
2-butanone (MEK)	**680**	50	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
cis-1,2-dichloroethene	**1200**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
tetrahydrofuran (THF)	< 50	50	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,1,1-trichloroethane	**47**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
trichloroethene	**180**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,4-dioxane	< 250	250	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**800**	50	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
toluene	**1400**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
2-hexanone	**120**	50	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
tetrachloroethene	**1300**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B

Project ID: Dover
Job ID: 20149
Sample#: 20149-002
Sample ID: influent
Matrix: Water
Sampled: 10/7/10 10:25

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
ethylbenzene	**94**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
m&p-xylenes	**450**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
o-xylene	**300**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,3,5-trimethylbenzene	**58**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2,4-trimethylbenzene	**130**	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**103**	78-114	%	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
toluene-D8 SUR	**129 ***	88-110	%	5	LMM		1002375	10/20/10	10:42	SW5030B8260B
4-bromofluorobenzene SUR	**103**	86-115	%	5	LMM		1002375	10/20/10	10:42	SW5030B8260B

**** The surrogate showed recovery outside the acceptance limits. Reanalysis of the sample showed similar results. Matrix interference suspected.***
Note: The sample pH was greater than 2, indicating inadequate preservation.

Project ID: Dover
Job ID: 20149
Sample#: 20149-003
Sample ID: effluent
Matrix: Water
Sampled: 10/7/10 10:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
t-butanol (TBA)	**79**	30	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B

Project ID: Dover
Job ID: 20149
Sample#: 20149-003
Sample ID: effluent
Matrix: Water
Sampled: 10/7/10 10:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
toluene-D8 SUR	**101**	88-110	%	1	LMM		1002375	10/20/10	5:50	SW5030B8260B
4-bromofluorobenzene SUR	**105**	86-115	%	1	LMM		1002375	10/20/10	5:50	SW5030B8260B

APPENDIX B

WASTE MANIFESTS

EP-6256

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NHD510202765
2. Page 1 of 1
3. Emergency Response Phone: 877-846-0447
4. Manifest Tracking Number: 003974953 JJK

GENERATOR

5. Generator's Name and Mailing Address: Executive Committee of Dover work Settling Defendants
228 Central Ave
Dover, NH 03820
603-743-6094
Generator's Phone:

Generator's Site Address (if different than mailing address): Intersection of Glen Hill Road and Tolland Rd.
Dover NH 03820

6. Transporter 1 Company Name: Environmental Projects Inc — U.S. EPA ID Number: MER000504191

7. Transporter 2 Company Name: Clean Venture Inc. — U.S. EPA ID Number: NJ0000027193

8. Designated Facility Name and Site Address: General Chemical Corp.
133-138 Leland Street
Framingham, MA 01702
508-872-5000
Facility's Phone:
U.S. EPA ID Number: MAD019371079

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082, Hazardous waste liquid, n.o.s. (tetrachoroethylene), 9, III ERG#171	005	DF	1800	P	D039		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
COO 1. 5x55 Contaminated Groundwater EP-5255-01,02,03,04,05

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Dean Peschel (City of Dover, NH) — Signature: Dean Peschel — Month 4 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Stephen P Smith — Signature: [signature] — Month 04 Day 15 Year 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month — Day — Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Cycle Chem

Recycling, Treatment & Disposal of Hazardous Waste

*217 South First Street, Elizabeth, NJ 07206 * 908-355-5800, Fax (908) 355-0562*

LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION FORM

This land disposal restriction (LDR) notification must be submitted with the initial shipment of all new waste streams. Subsequent notification is not required unless the waste stream changes. All sections MUST be completed. ***This alternate LDR certification is not applicable for waste that require treatment following the alternate soil or debris standards.***

Generator Name: Executive Committee of Drum Work Settling Defendants **Generator EPA ID #:** NHD570202765

Manifest #: 003974953 JJK

ALTERNATE CERTIFICATION: As a alternate to determining the LDR treatments {40CFR268.7(a)(2)} I certify the following is true, complete and accurate for each waste stream listed below and delegate proper LDR treatment determination to the TSD.

1) "This hazardous waste may or may not be subject to the LDR treatment standards. The treatment facility must make the determination."
2) Sufficient information has been supplied to the TSD {profile, packing list}, including UHC's, for the TSD to determined proper treatment.

Signature: Dean Peschel **Title:** Envir. Proj. Mgr

Printed Name: Dean Peschel **Date:** 4/15/10

WASTE STREAM INFORMATION – For each manifest line complete the following sections (Page 1)

Line #	Non RCRA	LDR on file	List ALL EPA Waste Codes Applicable to waste
1	☐	☐	D039
2	☐	☐	
3	☐	☐	
4	☐	☐	

For Continuation Page 2

Line #	Non RCRA	LDR on file	List ALL EPA Waste Codes Applicable to waste
5	☐	☐	
6	☐	☐	
7	☐	☐	
8	☐	☐	
9	☐	☐	
10	☐	☐	
11	☐	☐	
12	☐	☐	
13	☐	☐	
14	☐	☐	

For Continuation Page 3

Line #	Non RCRA	LDR on file	List ALL EPA Waste Codes Applicable to waste
15	☐	☐	
16	☐	☐	
17	☐	☐	
18	☐	☐	
19	☐	☐	
20	☐	☐	
21	☐	☐	
22	☐	☐	
23	☐	☐	
24	☐	☐	

For Continuation Page 4

Line #	Non RCRA	LDR on file	List ALL EPA Waste Codes Applicable to waste
25	☐	☐	
26	☐	☐	
27	☐	☐	
28	☐	☐	
29	☐	☐	
30	☐	☐	
31	☐	☐	
32	☐	☐	
33	☐	☐	
34	☐	☐	

For Continuation Page 5

Line #	Non RCRA	LDR on file	List ALL EPA Waste Codes Applicable to waste
35	☐	☐	
36	☐	☐	
37	☐	☐	
38	☐	☐	
39	☐	☐	
40	☐	☐	
41	☐	☐	
42	☐	☐	
43	☐	☐	
44	☐	☐	

EPI
Environmental Projects, Inc.
PO Box 1417
Auburn, ME 04211-1417
(207) 786-7390

EPI Project Worksheet

EP- 6256
Type Disposal
Day Thursday
Date 4-15-10

SITE INFO

START DATE:	TIME:
CLIENT: XOD, LLC	
SITE ADDRESS: Intersection of Glen Hill Rd. and Tolland Rd. Dover N.H.	
CONTACT: Matt Whites	
PHONE: 603-498-4411 (603) 545-9793	

CLIENT INFO

NEW: Y/N TAX EXEMPT: Y/N JOB ST: ME	ENT:
CLIENT:	
MAILING ADDRESS: 22 Marin Way Unit 3 Stratham N.H. 03885	
CONTACT:	
PHONE:	PO#:

PROJECT DESCRIPTION: Call Matt @ this # to meet w/ him and chart to sign paperwork then go w/ Matt to pick up 5 drums of waste.
* ask if he wants extra drums picked up that we left w/ him.

LABOR

NAME	POS.	START	END	TOTAL TIME
S. Smith	driver	1145		

EQUIPMENT/TOOLS

QTY	DESCRIPTION		HOURS
	V-7		

NOTES

* Need to fill in site adress for waste on Manifest. I don't know exactly what it is. Matt will have info. for you on site.
* Call Me w/ any questions
on site 1330
off site 1445
5 empty drums brought back for credit

MATERIALS

QTY TAKEN	ITEM	QTY USED
	Drum - 55 gal 17H-DM-DF-Poly	
	Drum - 55 gal 17E-DM-DF-Poly	
	Drum - 30 gal 17H-DM-DF-Poly	
	Drum - 30 gal 17E-DM-DF-Poly	
	Drum - 20 gal DM-DF-Poly	
	Drum - 85 gal Overpack-DM-Poly	
	5 Gal Pails - DF / PGI / DM	
	Vermiculite	
	T-Packs	
	Spill/Sorbent Pads-Bale	
	Sorbent Boom ❑ 5" ❑ 8" Bale	
	Clay Absorbent	
	Poly Sheeting - 6 Mil / Roll	
	Poly Bags - 6 Mil / Roll or Each	
	Level D PPE - modified	
	Level C PPE	
	Level B PPE	
	Chlor - D - Tect Oil Kits	
	Citri Solve / Gallon	
	Duct Tape / Roll	

DISPOSAL

DESCRIPTION / MANIFEST	FACILITY	QUANTITY
003621495 JJK	GCC	5

FURTHER ACTION REQ? ❑ YES ❑ NO

OFFLOAD TIME TOTAL:

TERMS ARE NET 20 UNLESS CHANGED IN WRITING. 1½ % interest after 30 days. Not all chargeable items appear on sheet.

Client Signature [signature] Date 4/15/10 EPI Signature [signature] Date 4/15/10

White Copy - EPI office Yellow Copy - Job file Pink Copy - Client Canary (orange) - OPS